

National Sugar Growers' Association. OFFICERS FOR 1884.

President-Norman J. Colman, St. Louis, Mo. Vice Presidents—Capt. R. Blakely, Minne-sota; D. F. Kenner, Louisiana; X. K. Stout, Kansas; A. Furnas, Indiana; C. F. Clarkson Towa; A. J. Decker, Wisconsin; A. G. Wil-diams, New York; Dr. E. F. Newberry, Ill. Secretary—F. K. Gillespie, Edwardsville, Ills. Treasurer—J. A. Field, St. Louis, Mo.

We have a number of inquiries as to the price of sorghum seed. We keep none for sale, and do not know the price. none for sate, and do not know the price.
All who want seed should send a postal
to those who advertise, and they can soon
learn what the price is. We believe that
all the parties advertising seed in the
RURAL WORLD are reliable.

I do not understand by the letter of W. S. I. & Sons in late RURAL how they planted their came seed. Will they please be a little more explicit, stating whether they plant in drills or in rows, so as to cultivate both ways, and how far apart the rows or drills are? And do they drop the seed by hand or drills? As the time will soon be on hand for planting, I want to learn the best way from some of the RURAL WORLD readers. S. A. T. S. A. T.

Mr. W. P. Clement, of the Sterling Sirup Works, Sterling, Kansas, after an absence from home of several weeks, in attendance at the many meetings held in the cane interest, north and west, made ess a call on Monday last. They have some twenty-five thousand gallons of their sirup yet to sell, and are getting for it the top of the market.

His object in coming to this city was to make for their name and brand a reputation that should hereafter place it in the front rank of Northern cane sirups. We have no doubt of his ability to place all of his stock in this market at top prices.

EDITOR RURAL WORLD: May I presume to apply to you for some information concerning the manufacture of sugar from sorghum. What is the machinery required, and who are the makers of the best kinds? What would be the capital required for a plant of

E, nd gle, opi-for

urnace. I wish he would give a description of his furnace for portable or stationary. I want a furnace with a capacity of some 150 to 200 gallons per day. Heretofore I have used wood, but we have no wood here.

have no wood here.

I think Southern Dakota should, and can be a great cane and corn country, as the soil is warm, and well adapted to vegetables as well. This will eventually e a great stock country. Kimball, Dakota.

Steam Evaporators.

BY E. W. DEMING, OF THE LAFAYETTE SUGAR RRFINERY.

EDITOR RURAL WORLD: The apid the evaporation of rapid the evaporation of cane juice, the better product; heat once applied and juice cleaned, evaporation should be as rapid as possible until 25 B, is reached, steam valve closed, semi-sirup closed, semi-sirup control and the model of the control of the contro

should be as rapid as possible until 25 B, is reached, steam valve closed, semi-sirup allowed to settle, and then drawn off into settling tanks.

Without speaking of the merits and demerits of the common, flat, low-sided, iron pipe evaporator, that merely simmers down the juice, I will describe the deep circular copper pan and coil used throughout Louisiana, and by the larger works of the North. These pans are not so expensive as many suppose, and considering their service, ease of management, transmission of heat to the juice, and the facility of cleaning scale from the coil, they are the most economical pan for a steam train. All steam works can afford, and should have them. The writer made such an evaporator of copper four feet in diameter, thirty inches deep, cased with wood-copper coil, and two inch brass tank valve, costing complete, eighty-six dollars and fifty cents. With eighty pounds of steam, this pan would reduce 250 gallons of juice to 25 B, in teen minutes. A pan like the above can be made for less than \$100, and a five foot pan for \$150. First decide on inside measurement of the pan, and order from some good coppersmith, a two inch con-

measurement of the pan, and order from some good coppersmith, a two inch cop-per worm (if a four foot pan or larger,) with two inlets and two outlets with prices.

We need, however, in this city, and hope soon to have, a central depot, where our citizens can get what they want, be it one, two, five or ten gallons at a time; then, and not till then, shall we find it properly distributed over the city and the county.

Editor Rural World: May I presume to apply to you for some informative to apply to you for some informative to apply to you for some informative to different thickness. Planished copper (hammered) makes a nice track.

makers of the best kinds? What would be the capital required for a plant of medium capacity, and what returns might be expected? Is the process one requiring any special skill, and can it be easily learned? Have similar enterprises within your knowledge proven successful and profitable, and are there many of them in operation? This, and any other information you can give me will be appreciated.

J. W.

We really cannot afford the time to go over all these details.

within your knowledge proven should be also to the same sized sheet, can be worked to the same sized sheet, can be worked to the same sized sheet, can be worked into a pan by a good tinner, and any cobbler can supply a wooden bottom and sides for its support. The pan should be were ally cannot afford the time to go over all these details to individual enquirers. Had they kept the run of the Burgar. World published at \$1.00 a extending 4 inches above and 4 inches above and 4 inches appears of the pan, seams beyond the upper edge of the pan, seams should be hooked and solder may be used, if required. A scum pocket, 3 feet besed, 12 inches deep, 12 inches deep, 13 inches and best advice is, read the RURAL WORLD and form your opinions.

Editor RURAL WORLD: I see in the published reports of several of the sorghum conventions, that it has been advised that the seed be tested by putting it in a sirup of 27° Beaume (Sp. Gr. 1.23) and that only such seed as sinks in such seemi-sirup should be planted. In the absence of positive evidence as to the wisdom of such a course, I think it desirable that your readers, especially those of the northern portions of the country, should be guarded against a course which, to say the least, is of very doubtful wisdom. It would be well if the sorghum growers of Minnesota, Wisponsin, Michigan and Iowa, for example, would make a trial by experiment to determine the seed which should float in a semi-sirup of 27° Beaume did not give them a better crop than the seed which should sink. This experiment walve until the pressure in the collection of the serving land as an avaporator, fill it two-flids or the pan within the influence of the heat, and leaves the surface of the pan within the influence of the pan and lowa, for example, would make a trial by experiment to determine the pocket to the clarifier pan between the pan to the pan and pan and powarded pan as evaporator, fill it two-flired pan and the pocket to the pan, coange the pan, seams should be placed in the center of the bottom of the pan, and operated by a stick with a small houbte placed in the center of the bottom of the pan, and operated by a stick with a small population of the pan within the influence of the pan within the infl the sorghum growers of Minnesota, Wisponsin, Michigan and Iowa, for example, would make a trial by experiment to determine whether for their planting, that portion of the seed which should float in a semi-sirup of 27° Beaume did not give them a better crop than the seed which should sink. This experiment may be easily tried, and there is reason to believe that the result would be, that the lighter seed would give a crop of cane somewhat lighter but (and this is a matter of very great importance at the North) somewhat earlier than the heavier seed; and there is reason to believe that by a continuance of such practice for a few years the length of time required for the maturity of any given variety of sorghum may be very appreciably shortened. To those who have been constant readers of the excellent weekly bulletin of the New York State Agricultural Expt., Station, the above suggestion will have presented itself. Sincerely yours, North) somewhat earlier than the heavier seed; and there is reason to believe that by a continuance of such practice for a few years the length of time required for the maturity of any given variety of sorghum may be very appreciably shortened. To those who have been constant readers of the excellent weekly bulletin of the New York State Agricultural Expt., Station, the above suggestion will have presented itself. Sincerely yours, PETER COLLIER. Washington, D. C. Feb. 9.

tablishment.

An evaporator or finishing pan should have its bottom well covered with coil, and copper is the best material, its radiating power being 898, to gold 1,000, and iron 378. An evaporator, say 3 feet wide and 10 to 14 feet long, would require an outlay of \$200 or \$300 for copper coil, and should have at least, three inlets and three outlets for steam, in order to keep the coil free of water, as hot water at 212 F. or less, is not as effective as 332 F. the coil free of water, as hot water at 212 F. or less, is not as effective as 332 F. with 100 lbs steam pressure. There will be no springing of pipe or noise in the pipe by steam and water mingling, if the pipe is full of live steam. In a square pan the return bends interfere with the free motion of the steam. If pipe is of copper, the side must be twenty or twenty-four inches high, and the pan surface would be too great for one man to watch and promptly remove the scum as fast as it raises.

In an evaporator seum should never

as fast as it raises.

In an evaporator scum should never pass over a boiling surface to reach a cool surface, but be removed at once. If the coil is properly arranged, there will be no side movement of the scum or juice surface whatever. The coil, in a circular pan, offers the least resistance to the passage of steam, and its straight sides bring all the scum to the surface, none can settle back under the coil as in a pan arranged for skimming on a sloping side.

ng side. All evaporators should have a good automatic steam trap. Globe valves are best on the clarifier and finishing pan. Small works can put in a four foot pan. make three or four strikes of semi-sirup, then pump it back into the pan and finish it all to 36 B. in one strike, or can have a three toot finishing pan; this will haudle the semi-sirup from four six foot pans working 500 acres of cane per season. working 500 acres of cane per season. Many years of experience has given the South a good evaporator, and there is no reason why we cannot adopt it at once. With us to increase the capacity, if not as a matter of economy, iron coil must give away to copper; this necessitates a deep pan friction of steam in the return bends, calls for a circular coil, when "lo," we have the Louisiana pan! then some enterprising chap will herald to the world, through the Rural World, his description of a pan—extremely ancient in Louisana. I wish it understoed, I am not a manutacturer or agent for machinery of any kind; this is a topic omitted at our late meeting, and will, I believe, be of interest to steam workers.

West Point, Feb. 12, 1884.

Cleaning Evaporators.

Cleaning Evaporators.

EDITOR RURAL WORLD: Having been a subscriber to the RURAL even when it was the Valley Farmer (with the exception of a time during the war), I cannot get along well without it, especially with the Sorgo department. I was in hopes of learning something from the Mississippi Valley Cane Growers' meeting with regard to removing the sediment that settles on the bottom of the evaporators in making sirup, but saw nothing. Will some one who has more experience give the best method of removing or prevent-

inform us through the RURAL.

I see in the RURAL of February 7th, a very interesting article from D. J. B., of Jones Co., Iowa, on the cultivation of sorghum, but he omits one very important item, that of planting, will he explain that through the RURAL? Does he plant in drills? If so, how far apart the hills, and how many staks left standing in the hills; if in checks, how wide and how many staks left? I have as strong land as any unmanured land in the world, and I have not been able to attain such yields as he thinks should be had, "from 200 to 342 gallons per acre," I also see from the RURAL of Nov. 8, E. J. W., of Ulman, Mo., writes that his cane made over 654 gallons per acre; now, if those who have attained such good results would give through the RURAL (the sorgo worker's paper) their method of cultivation and working up, it would be of incalculable value to other new beginners. Will S. E. H. & Son, of Odin, Ills., give through the RURAL his method of cleansing coal-oil barrels for sorghum, and oblige THOS. J. E. Fairville, Mo.

Bisulphite of Lime.

EDITOR RURAL WORLD: I notice in the RURAL of Feb'y 7th, that W. L. Anderson says that "any farmer who has sense enough to learn how to churn butter without his wife's help can learn to make bisulphite and use it too." Now I have churned cream into butter many times when I thought I was better able to do it than my wife, and if I can learn how to make bisulphite of lime, and how to use it, I want to do it. Is the process a secret? or will Mr. Anderson be so kind as to tell us sorghum growers how to Station, the above suggestion will have presented itself. Sincerely yours,

PETER COLLIER.

Washington, D. C. Feb. 9.

From Daketa.

Editor Rural World: In Rural of Superior Stations dropping into the juice are to none set and retained. If the juice are to none set and retained. If the juice is well clarified, from ten to twenty minutes are required to sweep off all the just says of turnace and grates for a pan 16 or 18 feet long by 3 feet wide, and cost of grates.

Again, in January 17, 1884, J. W., of Cedar Valley, Ohio, writes of a portable

surface into tongues eight inches long, and raising the body of the juice not more than four inches.

A copper finishing pan of this style needs a flange, but no pocket, because of the density of semi-sirup, and its readiness to hold heat makes it impossible to blow it up and hold it for sweeping. From the time steam enters coils of finishing pan until 212 F. is reached, a grey scum (gum) appears on the surface, that can best be removed by a circular perforated skimmer secured to a handle six or seven feet long—this is the only place for a perforated skimmer about the establishment.

An evaporator or finishing pan should should be a service in helping along the sugar industry. His articles have been interesting and instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instructive and I hope he will continue to write for the sorghum growers instruc all about it, so that others may learn to use it properly also. If Mr. Anderson can help us he will prove a benefactor in time of need.

YOUNG SORGHUM GROWER.

How to Make Bisulphite of Lime.

EDITOR RURAL WORLD: At the Cane Growers' Convention in Indianapolis, December 27 and 28, 1882, I presented samples of sugar and sirup made by Anderson & Son of Ladoga, Ind. Notwithstanding the premium mo-lasses of the Mississippi Valley Cane Growers' Association was on hands. I

Frowers' Association was on hands, Growers' Association was on hands, I had three grades superior to it, so considered by the man presenting it. It was also conceded by several sugar makers that my sample of sugar was equal to the noted Champaign sugar. The convention was anxious to know how we could produce a better article than others. I replied it was due to bisulphite of line which led them to inquire how this chemical was manufactured. this chemical was manufactured. I promised them I would publish a full description of the process. I now atdescription of the process. I now at tempt to fulfill my promise. HOW TO MAKE A RETORT.

Order some potter to make you a jug holding not less than three gallons; make it thick and glaze it heavily on the inside, else the acid will eat up the jug. Make the mouth not less than two inches in diameter. Get an iron kettle and build a furnace about it so that the kettle will be stationary and can be heated to the best advantage. Put the jug in the kettle and surround it with sand to its

mouth; be sure to have pleaty of sand under the jug, or it will burst.

HOW TO MAKE HYDRATE OF LIME.
Get a barrel, take the head out, put in a bushel of unslaked lime, elake it under water, then fill the barrel with water, and estimate the lime wall! and stir up the lime well, till a strong milk of lime is made, then let it settle till the water is clear. This clean water is hydrate of lime. Now get another barrel, bore a two-inch hole in the head. Tap the other barrel just above the settled lime and draw off the clear water and fill the second barrel. (It will have a good effect if you add a gallon or two of milk of lime to the clear water.) HOW TO FILL THE JUG.

Get good charcoal, fill the jug half full of it, put in about the same amount of sulphuric acid. HOW TO CONNECT THE JUG AND FILLED

HOW TO CONNECT THE JUG AND FILLED

BARREL.

Get a copper pipe three-fourths of an inch in diameter having two elbows, and long enough between the elbows to reach from the jug to the barrel when placed by the side of the furnace. One end of the pipe should just enter the mouth of the jug, the other should come within an inch of the bottom of the barrel. Get a rubber stopper, fit it into the mouth of the jug, bore a hole through its center just the size of the pipe, force the pipe through this till its end reaches the bottom of the stopper. Bore another hole in the barrel head; fit in this a wooden stopper, bore a hole through it as through the rubber stopper, slip it up the long end of the pipe almost the length of the barrel. Put in both stopof the barrel. Put in both stop-

leggth of the barrel. Put in both stoppers and fire up.

HOW TO COOK IT.

Do not fire up too fast or you will burst the jug. While you are waiting for heat get a stick [somewhat longer than the barrel, fasten some rags on the end of it and thrust them through the first hole you hoved thus making a dash. end of it and thrust them through the first hole you bored, thus making a dash. This dash need not be used until you see the gas escaping through the hole in the form of smoke, then put rags over the hole so that the gas cannot escape, wrapping them around the dash so that it will slide through them as you stir occasionally. Watch that no gas escapes at the rubber stopper. If it should, drive the stopper down as tight as the jug will bear, hang a weight on the pipe next the jug and put dough around the stopper. As the gas is formed in the jug it will escape through the pipe and rise in the barrel in bubbles, this you will hear.

How to tell when you first hear this bubbling till it is done will be six or eight hours. There is no test so good to the novice as that of smell. If you take your nose away as you would from a hartshorn bottle you know it is done. Draw your fire, letting it bubble away till it almost ceases, then take away your pipe or it will suck back into the jug. Stop your barrel tight. One barrel will make from 600 to 1000 gallons of molasses. HOW TO TELL WHEN DONE.

stopper on, as near ... most likely to escape. W.L. Anderson.

Ladoga, Ind.

Agricultural.

Farmers' Institute Meeting

[CONTINUED.]

Levi Chubback, on the subject of corn, first traced its history, and then followed with a brief analysis, showing its value as a fat-producing food, as well as combining a greater variety of elements in its composition than any other cereal, thus making it adapted to a wider range of use as food. Cornmeal produced excellent buter—as a clean sing crop corn is usaurter—as a cleansing crop corn is unsur-passed, better than the root crops of Eu-

ope. The value of fodder was spoken of to some length, in which the speaker showed that 60,000,000 tons of corn fodder was wasting annually in the United States, and that this, if properly cured and saved, was capable of supporting 30,000,000 head of cattle.

The selection of seed was an important rount. Seed should not be procured from

the food given beyond the low power of either digestion or assimilation. Proper protection is essential. Barns will pay, they save feed in a double sense—by preventing waste, and the sheltered stock requiring less and growing better. Besides, the manure is saved. Early maturity is essential. The food necessary it for the mere support of a steer of 1,000 bls. is 18 lbs. daily. If a steer is matured at 4 years, he eats the food of support 2 years longer than is necessary, thus largely reducing the profits. A proper combination of foods was strongly urged. The session closed at 4:30 p. m., and the party were then furnished with a strong appeal to the moral sentiments in favor of temperance, and his earnestness carried the audience with him.

The session closed at 4:30 p. m., and the party were then furnished with a strong ly urged. The muscle and fat forming elements differed in each food, and must be intelligently mixed in due proportion.

green, and well cured, it will, when fed with clover, make stock grow all the winter without the use of grain.

An estimate of cost of growing a steer to weigh 1,500 lbs. was given, from trials made by weighing, and was found to be \$50 00, corn fodder being rated at \$3 00, and hay at \$5 00 per ton. Did not consider that winter fattening an'l excessive grain rations paid, but advocated ground feed. The lecture was well delivered, it was clear, concise, highly instructive and interesting, and held the structive and interesting, and held the complete attention of the audience.

make from 600 to 1000 gallons of molasses.

My advice to all who have not tried this chemical, is not to attempt to make it until they are satisfied they wish to use it permanently, but buy what they want for the coming season. It will cost \$8 per barrel, but to accommodate all who may wish to test it next year I will furnish it at \$5 per barrel.

The above is copied from the Indiana Agricultural reports of 1882. I have nothing to add to what I then wrote, except that in fitting the rubber stopper

onto the copper pipe it would be better to cut threads on the pipe and screw the stopper on, as here is where the gas is most likely to escape.

W.L. Anderson.

W.L. Anderson. given for this, was that it enabled the growner to cultivate during the growing season. Yields of 60 to 80 bushels per acre, which were obtained in some parts of Europe, were cited to prove the value of this extra labor. In harvesting, the speaker advised cutting before the grain was fully ripe and hard, the grain being fully as good, while the straw was of more value for feeding to stock.

Chas. Teubner spoke next on "Fruits" giving a list of best varieties of each kind, and the order in which they ripened.

chas. I cubner spoke next on "Fruits" giving a list of best varieties of each kind, and the order in which they ripened. He also illustrated the evil effects of severe pruning, by exhibiting sections of limbs from pruned and unpruned trees. The list of apples he recommended for family use, 100 trees, were: E. Harvest 3, Red June 3, Sweet June 3, Red Astrachan 3, Maiden's Blush 5, Sweet Bough 3, Lowell 2, Fulton 3, Rambo 3, Mother 3, Jonathan 10, Grimes Golden Pippin 5, Huntsman's Favorite 10, Rome Beauty 10, Jeneton 12, Winesap 15, Small Romanite 5, Limbertwig 3, For market, 1,000 trees—E. Harvest 20, Red Astrachan 40, Maiden's Blush 40, Jonathan 100, Huntsman's Favorite 50, Rome Beauty 50, Winesap 100, Ben Davis 500, Willowtwig 50, Lansingburg Pippin 50. If far from market, drop first 3 varieties, and add to Rome Beauty and Willowtwing Favorite 50, Formar Research and State Parket of the State of the

states, and that this, it properly cured and saved, was capable of supporting 30,000,000 head of cattle.

The selection of seed was an important point. Seed should not be procured from points far North or South. Should be selected with a view to reducing the size of stalk, and increasing the yield of grain. The most thorough preparation of the soil before planting was strongly urged. Level and shallow tillage was best, because with the first, corn suffered less during a drouth, and with the second the rocure were less disturbed. In order to save the fodder part, the stalks should be cut soon after the corn has passed through the milky stage, and while the stalk is yet green, and put in small stacks containing the stalks from sixteen hills—as is soon as dry, husk and crib the corn, and immediately tie the fodder in bundles of the stalk is yet green, and put in small stacks containing the stalks from sixteen hills—as is soon as dry, husk and crib the corn, and immediately tie the fodder in bundles of the stalk is yet green, and put in small stacks containing the stalks from sixteen hills—as is soon as dry, husk and crib the corn, and immediately tie the fodder in bundles of the stalk is yet green, and put in small stacks containing the stalks from sixteen hills—as is soon as dry, husk and crib the corn, and immediately tie the fodder in bundles of the stalk is yet green, and put in small stacks containing to the stalk is yet green, and put in small stacks containing to yet green, and put in small stacks containing over a porch, a bit of rock work with naftive forms and stack. After each speaker, President Walker invited the public to propound a guestions touching upon the subject in hand, to which many responded. In the discussion which followed, the molecular that the subject in band, to which many responded in the discussion which followed, the followed the fertility of farms to so low the subject in great the proper of the proper of the proper of years that this system of cropping has porn the proper of years,

largely reducing the profits. A proper combination of foods was strongly urged. The muscle and fat forming elements differed in each food, and must be intelligently mixed in due proportion, to obtain the most economical beef. We waste straw and corn fodder enough in this State, to feed as much stock as it now keeps. Several combinations of food were given, but for the present time the mixture most economical was clover hay, rich in albuminoids, with straw or corn fodder, poor in albuminoids, with straw or corn fodder, poor in albuminoids. Two lbs. of this combination is worth about as much as two lbs. of clover. Corn should be cut as the kernel begins te harden, and put in bound shocks, of 4 hills square. As soon as cured, hall home and stack. Thus bound, they can easily be handled with a fork. Cut green, and well cured, it will, when fed with clover, make stock grow all the winter without the use of grain.

An estimate of cost of growing a steer to weigh 1,500 lbs. was given, from trials to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a total triangle of the subject matter was similar to that of Bazeau, with the addition of a contain information relating to Agricul-ture and Horticulture in their several ture and Horticulture in their several parts, thus early making the young mind familiar with the nature and use of some of the plants from which our main crops or the plants from which our main crops are made, as also some of our domestic animals, fruits and flowers: All these themes will prove as interesting (often more so) than many others now used in these books, while they would certainly be of more practical value. He said further that the State should print the books and thus source uniformity.

Che Shepherd.

EDITOR RURAL WORLD: Have you EDITOR RURAL WORLD: Have you any knowledge of (or have any of your readers) a new sheep disease which seems to be prevalent just now in the Northwest? The symptoms appear to be first a bloating of the animal, followed by a bleeding at the nose, and very soon by death. The disease seems to be very fatal. Many of your readers would be glad to have some indication of the cause and its remedy.

M. H. S.

Hall Co., Neb.
We would prefer further information ere attempting a diagnosis of a disease to us new and unknown. We have a very large number of sheep breeders, and hope that some of them may be able to answer your questions. We have replied to any the state in this issue, and refer our your questions. We have replied to an-other letter in this issue, and refer our interrogator to it under the impression that the disease proceeds from a similar cause as there suggested. What say our

EDITOR RURAL WORLD: I am a farmer and stockman in the Rocky Mountains, very near to the head springs of the Missouri. Still I can beat Mis

of the Missouri. Still I can beat Missouri for raising potatoes, of which, however, more at another time.

I am just now more interested in sheep matters. I keep about 2.500 head, and shave for six years past. During the past two years I have lost quite a number by death, and am desirous of ascertaining the cause. On an examination after death, I find the liver diseased with large sores, and at times the lungs and the sores, and at times the lungs and the heart.

This I observe mostly in the case of lambs, commencing at about ten days old, and continuing in the same flock until nearly a year old. When attacked, they higer only from two to four days, and die. Can any of your readers advise me what the cause is and what to do?

JAS. J. U.

Sheridan, M. T. Sheridan, M. T.

It would afford us much pleasure if some of our experienced breeders would suggest through these columns, the cause of the disease and its remedy. In the meantime, we suggest an entire change of pasturage, a liberal use of salt having plenty of sulphur mixed with it, and four ounces of oil cake meal to each, with other feed, per day, for a week at least. Then stop for a week and give eight ounces for a day, for six or more least. Then stop for a week and give eight ounces for a day, for six or more days. This for full grown sheep and nursing ewes, the lambs sucking will partake of the remedy. The cause, doubtless, is found in sameness of pasture and want of change, hence indigestion and the evils that follow it.

Where are K. H. Allen and R. M. Bell?

In the RURAL WORLD of Dec. 27th, was the above inquiry, to which our attention was called only a few days ago. We had overlooked it. I thank you for we had overlooked it. I thank you for the explanation and couriesy to each of us. I wonder if K. H. Allen has found his time so entirely occupied in making the new house as we have. Does he find too much work to do? Does he get so tired that he can't write or think? se tired that he can't write or think? Does he work so much that he can't talk? Poor fellow! But shall we not hear from him again? to be sure we shall. He is the come-around sort of a man. He is getting a fresh hold, and when he comes this time he will come to stay. His stock enterprises are well in hand I warrant. He knows which are best for his use and he can raise them, and when His stock enterprises are well in hand I warrant. He knows which are best for his use and he can raise them, and when he gets over his hurry and a little rested, he will shake himself again. So will we, and don't you forget it either. Cutting brush and briars, and buildings and gates, with the thousand and one hindrances of a new country, and a timbered, rocky one besides, will not last always. By and by we shall be fixed up in the new home. In behalf of myself and K. H. Allen I wish "J. G. B." and everybody who reads the RURAL WORLD long life and prosperity.

But J. G. B., hasn't materialized yet, though he has caused two of the long lost to do so. Come, friend, let us hear from you now. And Bro. Allen got in his hefty work too ere Bro. Bell did!

erop of lambs. I bought of a Mr. Gage, some merino rams Mr. Gage had bought at the New York State Fair, but they were raised in Vermont. Next I went to Vermont and bought a car load of ewes and rams. I bred pure Atwood rams all the time after that, direct from Edwin Hammond's flock. I was offered \$500 for two of these rams, by Messrs. Kelley & Barnes, in 1860. I sold G. B. Bothwell, in 1871, six rams that I bought of Mr. Edwin Hammond, of Vermont. They were of his best stock.

I know that Hon. A. M. Garland sold G. B. Bothwell 333 ewes of my brother

G. B. Bothwell 333 ewes of my brother Frank Hoppin's flock, in the year of 1867. C. T. HOPPIN.

Subscribed and sworn to be-fore me, this 31st day of De-SEAL.

cember, 1883.

H. C. Simons,

Notary Public.

Mutton Sheep from Texas.

EDITOR RURAL WORLD: I clip from the RURAL WORLD Jan. 3rd, '84, and in-close the same: "The RURAL WORLD, in referring to a recent article in the

This hue and cry against the railroads is worth looking into and "rustling" with, but the question arises in our minds whether it is worth while to breed muttons that are only worth \$1.50 or \$2 a

tons that are only worth \$1.50 or \$2 a head. There is no greater drug on the market than such "fat at that" muttons, and we question if it would pay to ship them from San Antonio to Chicago, even if the shipper had double-deck cars. With double-deck cars, such muttons could be shipped to the Chicago market at a profit.— Wool Journal.

When those sheep have been topped off with first-class Merino rams for a few years how much more profitable those same double-deck cars will prove. Come to Missouri, gentlemen, and see the rams our sheep men have provided for you."

I would like to provoke you to say more on the subject. I am willing to admit that there is much room for improvement in some of our Texas flocks, and that your Missouri rams are good. Still there remains a mystery in the mutton trade. The best quotation for mutton is but a little above 4 cents gross, whereas, beef is from 6 to 7 cents. Allow me to state that one of our Brown county flock-masters shipped to Chicago between 6 and 8 hundred mutton sheep last fall. He realized after all expenses were paid 50 cents per head. Said muttons would shear on an average of \$8 per head of good wool on grass alone. So it seems there is something else needed besides double-deck cars and Missouri rams. In conclusion would say I would like to provoke you to say Missouri rams. In conclusion would say that I had been contemplating making a special business of feeding mutton, but the outlook seems quite discouraging.

A SUBSCRIBER. Zephyr. Brown Co., Texas. Yes, sir, we will recur to this matter There is room for consideration

here and the subject will bear discussion Roots for Sheep.

A wise Providence has given the American the corn plant and the Englishman the turnip: and why not take the goods the gods provide? After two hundred years of discipleship we have not yet learned to value aright the Almighty's best and greatest gift to this continent, Indian corn. After two hundred years in the wilderness, we still lust after the onions, the leeks and the garlic of Egypt, the turnips of Old England. It is the stereotyped advice of the average writer on agriculture, in whose veins runs English blood: "My good farmer friends, would you get rich fast, grow a crop of turnips." I admit that for the production of the very tenderest, juiciest, mutton of the English stamp, a supply of roots may be advantageous, even necessary. But for the average farmer in the sary. But for the average farmer in the hot and comparatively dry climate of the region this side of the Alleghenies to engage to any extent in the growing of roots, while he allows his fodder to rot in the fields or be trodden in the mire of the average hy the hosf of the coarse feed. the fields or be trodden in the mire of the barnyard by the hoofs of the coarse feeding, unappreciative steer, is a great mistake, to say the least. I believe that the special suitableness of fodder for sheep is the strongest connecting link which binds that animal to a system of diversified farming—one wheel of the many which must mesh together to run the machinery of the successful farm—and gives it a possible—almost the only possible—future as a competitor of Australia.—Stephen Powers in Ohio Farmer.

Che Pig Pen.

Artichokes, Best Hog Food.

Artichokes have been grown in this Artichokes have been grown in this country for half a century or more, but it is only the last few years that the true value of them seems to have been appreciated. We brought them prominently before the notice of our readers and customers some three years ago. Up to that time we had been handling one or two barrels per year, to fill small mail orders—paid an Eastern seed house \$3.50 per bushel for them; but learning the experience of a prominent farmer near here, rience of a prominent farmer near here, who " had raised them for thirteen years, who "had raised them for thirteen years, had grown from 600 to 2,000 bushels per acre, according to the season—filled his cellars every fall with them—fed them to his cows and caused them to give a great flow of milk; his horses and sheep also liked them, and the hogs did their own digging, kept fat on them; and as to hog cholera, no one ever heard of it amongst his hogs—believed that if all farmers had a patch of them, we would hear very little of it and kindred diseases amongst hogs." Any root crop is good for hogs, hogs." Any root crop is good for hogs, especially in a prairie country where there is no mast, but Artichokes contain more saccharine matter than any other vegetable, and can be raised more cheap ly. We notice a farmer says through an agricultural paper, that he will raise them But J. G. B., hasn't materialized yet, though he has caused two of the long lost to do so. Come, friend, let us hear from you now. And Bro. Allen got in his hefty work too ere Bro. Bell did!

The History of the Hoppin Bro.'s and G. B. Bothwell Flocks.

In the year of 1846, I bought, in Madison county, N. Y., 1,600 fine Spanish ewes, and drove them over land to Sangamon county, Ills. There was a drought that year in New York, and I was enabled to pick flocks that never had been selected from before, and I got a splendid lot of sheep. In the year of 1857, I sold brother Frank B. Hoppin, one-half of that flock, keeping that year's crop of lambs. I bought of a Mr. Gage, some merino rams Mr. Gage had bought at the New York State Fair, but they were raised in Vermont. Next I went to Vermont and bought a cga load of ewes and rams. I bred pure Atwood rams all

Artichoke, before our readers and customers some three years ago; and our orders increased from one barrel the year before to 500 bushels the first year, 1,000 bushels the second year, and so on, and all customers were more than satisfied. One tarmer from Kansas came to our office last summer and said he had \$800 in his pocket, made from his experiment with them, part receipts of a car of hogs just sold at the stock yards. Year before his hogs died off with hog cholera—read our article on Artichokes, planted a patch with the above result. His hogs are healthy now, and bring him money instead of fattening the buzzards.

money instead of fattening the buzzards. Extract from the catalogue of Trumbull, Reynolds & Allen, Kansas City, Mo., which can be had free.

SWINE RAISING SOUTH.—Prof. Steele, agricultural editor of the Mobile Register, thinks the Southern States admirably adapted to raising hogs, and that by the adapted to raising hogs, and that by the new refrigerating inventions, pork may be saved at the South as well as anywhere else. The long-continued warm weather is favorable to rapid fattening and cheap pork, since hogs cannot be kept up and warmed by stoves and wood fires in cold weather, and it is expensive to warm them by heat-producing food like corn and peas. He thinks pork can be made at less cost in the South than in the North. the North.

and of the Porter Iron Roofing Co., of Cinmut). Oho. If is very handsome and comes the best of testimonials from every te and Territory. This company is the gest manufacturers of Iron Roofing and rugated Iron in the United States. Send circular. We have just seen the new descriptive circular of the Porter Iron Roofing Co., of Cincinnati, Ohio. If is very handsome and con-tains the best of testimonials from every State and Territory. This company is the largest manufacturers of Iron Roofing and

Sundries

Many people have already engaged passages for Europe next summer, and all the ocean steamship companies are making preparations for heavy travel.

A Sore Throat or Cough, if suffered to progress, often results in an incurable throat or lung trouble. "Brown's Bronchial Troches" give instant relief.

Anthony Comstock recently brought suit for false imprisonment against a pool-seller whose place he had raided, and who had him arrested for violence. Comstock fixed the damages at \$50,000. He recovered \$100.

Merited Praise.—The universal praise be-stowed upon Kidney Wort as an invaluable remedy for all disorders of the Kidneys, Liver and Bowels, is well merited. Its virtues are universally known and its cures are reported on all sides. Many obstinate cases have succumbed to it after they had been given up by the doctors and a thorough eatment will never fail to cure. Sold by all druggists. See advertisen

Professor Huxley says that in his voyage around the world, and in all his studies of savage life, he found no people so miserable, wretched, and degraded, as those who exist

in the poorer quarters of London. Hope Like an Auchor steadies those who use the means Providence has placed in their way of guarding against the coming of physical ills to which "flesh is heir." The honest merchant insures his stock of goods; the ship owner, his vessel and cargoes; the banker, his treasures; whilst the mass of poor humanity neglect to provide for the maintenance of health which outweighs all the treasures of earth combined. To sustain a hungry man we give him food, and to re place the wasted tissues of the body by pro moting digestion and attending to nature' requirements we advocate using the celebrat ed Home Stomach Bitters.

The lectures of Joseph Cook suggest a story to the San Francisco Bulletin: "Sandy, what is the state of religion in your town?" "Bad, Sir; very bad. There are no Christians here except Davis and myself, and I have many doubts about Davis!"

Case of Curvature of the Spine Cured .- Mr. Porter Walker of Norborne, Carroll Co., Mo., visited Drs. Dickerson & Stark's Surgical Institute at Kansas City a few days ago, reporting his case of curvature of the spine entirely cared.

The Rev. Mr. Conway, of Brooklyn, sued the Rev. Mr. Fulton, also of Brooklyn, for \$400, for alleged services rendered as assistant pastor. The jury disagreed. Conway now brings suit against Fulton for \$30.00 This time the complaint charges libel.-N. Y

DR. JOHN BULL'S

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IN THOUSANDS OF CASES sured where all else had failed. It is mild clent, CERTAIN IN ITS ACTION, but as in all cases...

harmless in all cases.

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gives New Life to all the important organs or
the body. The natural action of the Kidneys is
restored. The Liver is cleanaed of all diand the Bowels more freely and healt by
in this way the worst diseases are er. . defrom the avates. CE, \$1.00 LIQUID OR DEY, SOLD BY DRUG

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AYER'S SARSAPARILLA Has been tested by and has received the unqualified commendation of 4,000,000 families in the United States, and 7,000,000 families throughout the world.

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HON. F. JEWEIT, EXPANDED to Leaves, and cx-State Senator, says that the only preparation of Sarsaparilla that seems to do "real, lasting good" in cleansing the blood and expelling poisonous matter from the system, is

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Mil. Ton Fox, the largest land-owner and farmer of Middlesex Co., Mass., credits his cure of Scrofulous Humor and Dyspepsia to the thorough purification of his blood by AYER'S SARSAPARILLA.

WARREN LELAND, the famous New York landlord, testifies, from his own knowledge, that for the cure of Liver Disorders, Gout, Salt Rheum, and various results of high living, there is no medicine equal to AYER'S SARSAPARILLA.

HIRAM PHILLIPS, Glover, Vt., attests the cure of Hereditary Scrofula, in three generations of his family, by AYER'S SARSAPARILLA.

THOS. N. COOK, West Somerville, Mass., was cured of severe Eczema, and rescued from a rapid decline, by

AYER'S SARSAPARILLA. THE SISTERS OF CHARITY, Dorchester, Mass., vouch for the Alterative and Curative virtues of AYER'S SARSAPARILLA.
J. RYAN, Philadelphia, Pa.,
onal base-ball player, was cured

JOHN J. RYAN, Philadelphia, Pa., professional base-ball player, was cured of Rheumatism by AYER'S SARSAPARILLA. D. B. KERR, Big Springs, Ohio, testifies that his son. fifteen years old, was cured of Catarrh in its worst form, by

AYER'S SARSAPARILLA

Is endorsed by the medical profession and regularly prescribed by many leading practitioners.

AMHERST WHITMORE, Brunswick, Me., retired sea-captain, was cured of a Cancer by AYER'S SARSAPARILLA.

The attestations of a myriad of unimpeachable witnesses might be cited, were it necessary, to prove the almost miraculous cures effected by this only really Blood Purifying Medicine.

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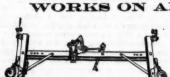
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London Lancet.

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Aggravat.

Argonaul.
Address the Peabody Medical Institute, or Dr. W. H. Parker, No. 4, Bulfinch St., Boston, Mass., who may be consulted on all diseases requiring skill and experience. Chronic land obstinate diseases that have baffled the skill of other physicians a spelialty. Such treated successfully without an instance of failure.

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Horticultural.

udge Samuel Miller, Bluffton, Mo. will ist in conducting the Hortcultural Depart-te in this journal. Any inquiries addressed him willoe promptly answered through RURAL WORLD 1

The Late Freeze on Peach Trees.

FRIEND MILLER: Aren't you a little

FRIEND MILLER: Aren't you a little off the track, and don't you take too gloomy a view of things when you say in-RURAL WORLD: "It would seem as though the growing of peaches is becoming more precarious as time passes; and and if one wishes to be sure of them it will be necessary to grow the trees in tubs and put them in the cellar over winter. If we must resort to Ithis there will be but few peaches grown."

Of course we would all like to have had a peach crop this year, having had none last, but then we sometimes get two crops in succession to compensate. Here about Alton we have had seven peach crops in 15 years, counting '84 it will be seven in 16. Now 1 don't think this so very bad, considering that peaches will bring four times the price of apples, and begin to bear at four years of age, instead of ten. Some persons seem to think the trees are killed, but I have no such fears. They were not killed in '64 such fears. They were not killed in '64 nor '73. True it was colder this time, but it is also true the trees were in excellent condition, and the cold came on gradually, when the trees were dry, and I do not believe the trees are injured more than they were in '64 and '73, both of which seasons were followed by peach

That the trees are injured there is no doubt, and they will under no circumstances be so good, or live so long as they would, had they not gone through so low a temperature, but if properly pruned before spring opens, and well cultivated all summer long, so that the leaves will remain green until killed by next winter's cold, they will recover sufficiently to live several years, and give us good crops. I look for a big crop of peaches in '85. I have about 1500 trees from one to six years old, and will plant more in spring, so you see I don't believe the outlook for peach-growing so gloomy as you do, and I don't think the facts warrant so gloomy a view as you take That the trees are injured there is no as you do, and I don't think the facts warrant so gloomy a view as you take of the situation. I would rather have but so few crops as we have as to have them every year. E. A. RIEHL.

We hope Friend Riehl is correct in his

surmises, and that the oil that he has poured upon the waters may calm the horticultural storm that has passed over us.

S. MILLER.

thought it not expedient in this climate, and eyen voted against it.

Now, however, from experience I have learned, that any healthy tree, even if six inches or more in the trunk, may be successfully changed, and the tree kept successfully changed, and the tree kept apperfect health. There is to my knowledge no company, or party, who goes around to perform such work, yet there is, no doubt, many men who would be glad to have some of their trees changed to a better variety.

It is, same as black. This can be done by cutting away with a sharp hoc all so the rows, allowing from four to eight canes to the hill. Many growers allow not too thick.

OLD CANES.

There is a difference of opinion among raspberry growers as to the best time to cut away the old or bearing canes. I there is a difference of opinion among raspberry growers as to the best time to cut away the old or bearing canes.

R. N. SMITH asks "Can I get fruit from a Herbemont grape vine, if I protect it from mildew and rot, in summer, and lay down and cover the vine in winter? My latitude is 39 1-2° latitude. The thermometer has not reached zero here this winter yet."

Yes, of course, you can fruit it, and when you get it, you have one of the finest table or wine grapes we have. I once saved a vine of Herbemont full of clean fruit in Neubrey. New York, in the southeast angle of a house.

Raspberry Culture.

Raspberry Culture.

The following paper was read by N. Ohmer, President of the Ohio State Horticultural Society, before the late meeting of the Mississippi Valley Horticultural Society at Kansas City:

Having been solicited by the Secretary of this Association to read a paper before you on the Cultivation and Marketing of Raspberries, I, out of respect for the gentleman, and the desire to add my mite to make this meeting one of practical value, consented to do so, and now rise, not to tell you where the first raspberries came from, by what name they

as at present. I now plant largely of them because I find their culture profitable. Any of you can do as well if you have suitable soil, varieties, and understand the proper mode of culture.

THE CONDITION OF SUCCESS. THE CONDITION OF SUCCESS.

To grow raspberries successfully, you must select good soil, well underdrained; let it be clay loam or sandy soil, but prefer upland clay loam. I have known them to do admirably in almost any soil, provided it is rich and not wet. Plow as you would for any other crop, the deeper the better if your soil admits of it. Harrow well; plow out furrows six or seven feet apart, and plant in said rows three feet apart—a partial shade I find to advantage. My patches that do best are in an old orchard.

BLACK RASPEERRIES

BLACK RASPBERRIES

are usually planted shallow, an inch or two deep. If it is your intention to tie up your canes that is deep enough, but if you wish them self-supporting you must plant them so that by after culture they plant them so that by after culture they will be at least three to four inches deep, otherwise they will not be self-supporting. By so planting and pinching back, as hereafter described, I never have trouble about my canes blowing, or falling down by the weight of fruit.

The first year's growth I pinch back when eight to ten inches long. The second year, and every year thereafter, I pinch back the tips of the growing shoots when from twenty inches to two feet high. They then cease to grow in

shoots when them tweety factors to two feet high. They then cease to grow in height, but throw out latterals in all directions, balancing and supporting the main stem effectually. The following spring, early in the season, I cut back all laterals with hand pruning shears, fleaving them from one foot to two feet large. ing them from one foot to two feet long, according to the number and strength of canes in the hill. This operation is quickly done and inexpensive. After pruning, I gather and carry out and burn all the debris between the rows. I or barshear plow, then in time with a cultivator, as often as it is necessary to cultivator, as often as it is necessary to keep them clean, free from grass and weeds, up to August, after which I let them rest. It is not a good plan to cultivate too late in the season; you thereby cause them to grow too late to mature the wood sufficiently to withstand the cold of winter. I plow and cultivate them three to four inches deep. You need have no fear of injuring the roots by so cultivating.

RED RASPBERRIES.

I plant the same distance as black, three by six feet. This takes 2,420 plants to the acre. I do not cut back the canes of red varieties (as I do the black) until the following spring, except strong

poured upon the waters may calm the horticultural storm that has passed over us.

S. MILLER.

Grafting Apple Trees.

Owing to many trees sold by agents that did not prove to be what the planter ordered, many are greatly disappointed when the trees come into bearing, when it is too late to remedy the 'evil, except by grafting over with such varieties as are desired.

Some 20 years ago a set of grafters passed through this region and did considerable grafting, but much of it was done on old trees, which, of course did not last long, and, from observation, I thought it not expedient in this climate, and even voted against it.

around to perform such work, yet there is, no doubt, many men who would be glad to have some of their trees ehanged to a better variety.

To give some idea of what it would cost, we will say that a tree of six inches at the base would need about 20 to 25 grafts.

The usual charges used to be 3 cts. per graft if paid down and the grafts left free, or 5 cts insured, which was only for the grafts that grew, and the parties going around the second time and showed how to dress off the sprouts; the parties grafting being found in board and horse feed.

There is no doubt that a band of this kind could find employment in many neighborhoods. Of course they would have to bear a good reputation, or they would not be trusted, as they can easily cheat in varieties put on, and deceive the orchardist a second time.

In my young days I use to follow the business, greatly to the satisfaction of the farmers,

S. MILLER. them as soon as I can after the fruit has been gathered.

TYING UP CANES.

TYING UP CANES.

For a long time I advocated and practiced the tying up of canes, first to stakes, then to an iron wire stretched along the rows fastened to posts every 25 to 30 feet. Either of the systems I found expensive, and slow work. It did well enough when I had but an acre or two, and did nany acres I found it was not the thing to do, especially so when I learned that stakes and wire were of no use, I might say entirely unnecessary. I cannot help but sympathize with those who are so far behind the times as to follow that system now. By adopting the pinching back process, at the proper time, I save the expense of stakes, or posts and wire, and the time necessary to tie the canes to them, and raise as many bushels of as nice berries per acre, as I did when I followed the old system.

GATHERING BERRIES.

of this Association to read a paper before you on the Cultivation and Marketing of Raspberries, I, out of respect for the gentleman, and the desire to add my mite to make this meeting one of practical value, consented to do so, and now rise, not to tell you where the first raspberries came from, by what name they were called, nor what were their quality and commercial value, but propose to go directly into the merits of the case by giving you in a brief form WHATI KNOWABOUT RASPBERRY GROW-ING.

Raspberries are attracting more attention at this particular time than ever before. Raspberries have always been appreciated more or less on account of filling in the place nicely between strawberries and blackberries. It is a fruit much admired by many, though never so popular as the strawberry. Up to within a few years there were but few varieties. The Red Antwerp, American or common Black Uap, and Brinkles Orange, were popular as far back as I can recollect. As much improvement has been made in late years in the raspberry as in any other fruit. We are now not confined to three or four varieties, but varieties of distinguished merit can be counted by the dozen. I have grown the raspberry for market now twenty-I have often been asked how I manage

six years, but never to the same extent in exchange for smaller checks when de-

I pay no one money on account, or in full, until the last picking is over, except in case of sickness or other good cause. By adopting this method my hands continue their work until the last picking is over. When pay day comes all are made aware of it, all come, and when we are through with the last picking, all hands collect in the shade and are paid off in

collect in the shade and are paid off in full, after which I give them a treat of cider, lemonade and cakes, all have a good time, and go away more happy than many worth their millions.

PACKING AND MARKETING.

There is a very strong disposition about Cincinnati, and where I live, to stick to the old half bushel drawer, (four drawers to the stand) for such berries as will stand shipping well, of course, I comply with the wishes of those who buy my berries, whilst I may not agree with them. I therefore empty the berries from the quart baskets into which they were picked, into the drawers, sixteen quarts to the drawer, put the drawers up in to the drawer, put the drawers up in stands, and deliver them at the business places of the parties who buy the crop. Red raspberries are put up in pint bask-ets, and so shipped. Such varieties as Thwack, Brandywine and Cuthberts can Thwack, Brandywine and Cuthberts can be put in quart baskets, and will so carry to market in good condition. It has been my good luck since I am in the business, to sell all my berries to responsible shippers at home—Dayton. They do the shipping, run all risk, turnish the stands, and charge me 10 per cent. on sales. I do not retail, get satisfactory prices, and run no risks. One or two parties usually handle all my berries.

VARIETIES TO PLANT. VARIETIES TO PLANT.

Of varieties I will say but little, except to advise those who desire to go into the business to make money, to confine themselves to but few varieties; two or three each of black and red, early and late, are all that are necessary

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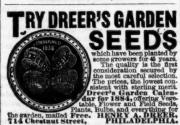
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A SALE of canned goods, 30,000 dozen a pound cans tomatoes, recently made at Baltimore, gave rise to a considerable comment, not on account of the quantity of goods offered in one lot, but through the low price at which the goods were sold. The prices proved the lowest on record since the introduction of canned goods the dealers adding that a further record since the introduction of canned goods, the dealers adding that a further decline would force them out of the business. The regular jobbling price the present season it appears is 85 cents per dozen, but the big sale recently made had a demoralizing effect. Tomatoes can now be grown and canned at such low figures that the prices of a few years ago will never be obtained again.

The demand for foreign and tropical fruit in this city has grown to wonderful proportions within the past two or three years. Five or six years ago a car load of bananas in midwinter would be something of a novelty, but during the present winter, cold and unfavorable as it has been, the unloading of bananas, oranges, lemons, and similar products was of daily occurrence in front of the foreign fruit houses. Prices have been so remarkably low, that both local and outside dealers have purchased very freely. Several car loads of bananas in transit from the South during the cold snap last month were utterly worthless on arrival and were dumped into the river. THE demand for foreign and tropical into the river.

from it.

He

referred to the fact, that from

Maine to California, and from the farthest north to the extreme south men were scouring the country for good cows and buying them in car-load lots and fitties;

tle until they had the finest in the State. he called upon the farmers to see to it that their mileh stock was likewise im-

The outfit consists of engine and boil-

or of ten horse power; two churns each of 300 gallons capacity, two cream vats same size, one power butter worker, cold water pump, cold and hot water coils, 35 patent refrigerator cans of 20 gallons each, also 15 cans of 8 gallons each, and an excellent well of water.

an excellent well of water.

These all with the ground on which it stands, and an expert butter maker for a year, are included in the cost abovelmentioned. We understand they have quite a number of other and similar buildings

in process of erection and are in treat

some ten or a dozen more.

for some ten or a dozen more.

The men composing the firm come to us from lowa with the best possible credentials, as men of means, of business capacity and the highest sense of honor. They have permanently located in our State, to better carry on and perfect their system of associated creameries.

Col. R. M. Smiley, the superintendent and general manager, may be addressed at either Kansas City or Carrollton and the firm of Holt & Hall, at Kansas City.

State. It is our purpose, if our life is

WE do not care to keep the idea of fire in the minds of our readers with a view to disturbing their rest, but it is our duty to remind them now and again of what may result from thoughtless and careless trifles. We quote from the Melbourne, Australia, Leader, the following sugges-

creamery its value doubled or trebled, thus adding hundreds of thousands of dollars a year to the produce of the county, and with vastly less labor than is now devoted to the tillage of the soil.

Instancing what had been done by Will. R. King, of Peabody, and the other members of the Saline County Shorthorn Breeders' Association, in the improvement of their herds of beef cattle until they had the finest in the State. Our note of warning as to the danger of fire appears to have been made none too soon. It is reported that a farmer at Corop was driving some friends around to have a look at his crops, when one of the gentlemen-struck a match for the nurnose of lighting his pine, and having the gentlemen-struck a match for the purpose of lighting his pipe, and having carelessly thrown it down, the dry grass surrounding was soon enveloped in flames, which continued to spread with alarming rapidity, and notwithstanding the exertions of about 20 persons, 10 acres of splendid grass, besides a quantity of fencing, was destroyed. Had not the wind suddenly changed nothing could have prevented the flames from entering the cultivation paddocks. grass, the finest farms, in the best county, in the richest State in the union, you have hung out your banner and on it inscribed the word Excelsior.

The Marshall Creamery enterprise thus inaugurated, is the property of citizens of that town, was erected at a cost of \$6,600 by Holt & Halt, of Kansas City. It is the last of nearly forty of a similar character built by the same firm in this State, and contains the very latest improved machinery. It is a very subentering the cultivation paddocks.

INVITATION FROM AGRICULTURAL COLLEGE OF MISSISSIPPI.

Gov. Norman J. Colman: My Dear Sir—The faculty of this college, by reso-lution, have invited you to deliver our Annual Address on the third Wednesday in June. It gives me pleasure to inform you of their wishes, and to express the hope that one who has done so much in hope that one who has done so much in the cause of Agriculture, will comply with their wishes. I mail you one of our annual reports, and also one of our last Yours truly, S. D. LEE, President. catalogues,

in this State, and contains the very latest improved machinery. It is a very substantial structure and deserving of a visit from all who are contemplating a similar enterprise. It is 36x44 feet, and has three air chambers around the entire hullding. The ice house is of the same dimensions, having a capacity for 400 tons of ice and filled with a splendid article ten inches thick. Agr'l College, Miss., Jan. 30th, 1804. REPLY.—Absence from home has preweight.—Absence from nome has pre-vented an earlier acknowledgment of this kind invitation. While we cannot at this writing, fully accept it, we will try to so arrange our affairs as to be present. We will let you know positively, within a short time, whether we can be with you,

THE MARSHALL CREAMERY.

The formal opening of this, the latest addition to the butter-making institu-tions of the State, took place at Marshall, the well-known county seat of Saline Co., Mo., on Saturday last. At the in-vitation of the stockholders a public eeting of the farmers of the county had eeen called, and a number of speakers com a distance provided to address hem on questions of the hour, viz: Missouri as a Dairy State," "Cream-ries, the Best Means of Developing it," and "What is Next to be Done?" d "What is Next to be Done?

and "What is Next to be Done?"
At 2 o'clock p. m., the hour set apart for the meeting, an audience of about 150 farmers, with their wives and daughters, had assembled in the new and elegant opera house, and Col. Gist, mayor of the city, in a few well-chosen remarks, called the meeting to order, spoke of the importance of the new Marshall enterprise to the farmers of the county, and introduced the speakers to the audience.

duced the speakers to the audience.

Capt. J. B. Thempson, Treasurer and Superintendent of the La Plata, Macon County, Creamery, and ex-president of the Missouri State Press Association, and one of the best posted men in the State on co-operative dairying, spoke of the magnificent outcome promised the farmers of Missouri by this new and important enterprise. He presented an array of facts and figures, demonstrating beyond controversy that no State in the union was better adapted to co-operative dairying than Missouri; that her soil and climate, her clear, cool and abundant streams, her wonderfully luxuriant blue grass, timothy and clover, as well as the everything we can to develop this important industry in our State. Our location is the best of any State in the Union for this purpose, better than in the great dairy States we have at present, as we crass, timothy and clover, as well as the known enterprise and wealth of her citi-nown enterprise and wealth of her citi-ns, testified in trumpet to so to the utcome promised. In an hour's talk he atertained the audience in the most contercanned the audience in the disk colli-ucing manner, showed that the cream-y had come to stay, and if properly pported by the farmers must hurse ry largely to their annual profit. He a listened to with marked attention,

and frequently and warmly applauded.

Col. R. M. Smiley, Superintendent and General Agent of the Southwestern Creamery Association, of Kansas City, of which Messrs. Holt & Hall, late of Oscale Livers are holders, stole of which Messrs. Holt & Hall, late of Oscoola, Iowa, are proprietors, spoke of associated co-operative effort as the best means of developing the dairy interests of the State. Col. Smiley is a forcible and eloquent speaker, thoroughly familiar with his subject, and indeed with everything else pertaining to the dairy industry. Referring to the six handred creameries of Iowa to-day, as compared with the one existing ten years ago, he pointed with pride to the fact that, at the Centennial, that State carried off the first premium, that the same butter sent to England, more than 4,000 miles from the place of manufacture, and in competition with the oldest and best dairymen of the United Kingdom, successfully

They Have Killed the Goose that Laid the Golden Eggs.

II. It might be supposed by persons unacquainted with the real state of things in regard to flax, culture in the western States that the unprofitable result which has caused the extraordinary decrease in the flax area, is inherent to the flax crop, and it is even not rere to hear formers and it is even not rare to hear farmers

and it is even not rare to the nax crop, and it is even not rare to hear farmers say that "flax raising does not pay."

Nothing, however, is more erroneous than this assertion. If farmers do not find flax raising profitable, they have entirely to thank themselves for such unfavorable result. They cannot surely blame the flax crop for their careless preparation of the land, for their leaving it full of weeds, and for their sowing seed intermixed with at least 40 or 50 per cent of impurities and weed seeds, and otherwise unfit for the purpose of reproduction, having for the most part lost its germinating power. These are the principal causes of the very poor results obtained of late years from flax raising in the Western States, and no other result could reasonably be expected under similar circumstances.

The present system of seed loaning cannot be too severely criticised, and I assert that it has contributed more than anything else to the utter degradation.

place of manuacture, and in competition with the oldest and best dairymen of the United Kingdom, successfully carried off the second prize offered. He compared that butter, brought to perfection by associated effort and skillful handling, with the thousand and one samples ordinarily found in the market, the product of individual effort and in the absence of expert makers; showed that the one is quoted to-day at the top of the market at forty cents per pound, whilst the other ranges down all the way from twenty-five to ten cents. Col. Smiley spoke for more than an hour, following his subject step by step in the most convincing manner, and by sheer force of logic proved to his audience that, as in all other departments of business experienced and skilled mechanics and managers were necessary to the production of the highest grade of goods, so in the making and marketing of butter.

Mr. Longman, of the Rural World. assert that it has contributed more than anything else to the utter degradation and unprofitableness of the flax crop. More than nineteen-twentieths of the flax seed annually sown in the Western States is of the above description, and it is, indeed, difficult to understand the folly of the oil crushers and their agents in loaning such utterly worthless seed to the farmers, which, by the poor crops it produces must infallibly lead to the abandonment of flax raising everywhere, as is already the case in several Western States. Hitherto the numerous oil mills, which have sprung up like mushrooms all over the West and Northwest, through the very low prices at which they have assert that it has contributed more than so in the making and marketing of butter.

Mr. Longman, of the RURAL WORLD, spoke of "What is Next to be Done." Sailue County has secured her first creamery, and it is a grand one, having a capacity of 2500 lbs. of butter per day, which means that number of good cows. Has she as many within twenty-five miles of Marshall? If not, will'she get them? Her farmers now need cows adapted to butter-making—the Jerseys, Holsteins and Ayrshires and bulls of these to cross on the cows they now have. They must weed out the poor and unprofitable, and secure other and better ones to take their places. Must put more of their land into pasture and meadow and make, besides, two blades of grass to grow where but one grew before, by returning to the soil an equivalent for that taken from it. the very low prices at which they have obtained the flax seed from the farmers by the usurious system of seed loaning, have been able to pay their stockholders by the usurious system of seed loaning, lave been able to pay their stockholders in many cases 25 per cent dividend per annum, but the time is fast approaching when they will have either to buy Bombay or Calcutta seed at considerably higher prices, or shut up their mills. They have in fact, "killed the goose that laid the golden eggs," for there will soon be an end to their golden harvests at the farmers' expense. There is another cause which, besides the execrable quality of the sowing seed, has powerfully contributed to bring jabout the utter degeneracy of the Western flax crop, and that is the thin sowing, and this is also connected with the system of seed loaning. As the seed for sowing is loaned to the farmer only on condition of delivering to the cil mill or seed dealer the crop raised therefrom, and with a view to covering the largest possible area with the smallest possible outlay on their part, whatever may be the result to the farmer, they have persuaded the latter that the thinner the sowing the better the crop, and buying them in car-load lots and fifties; thus proving that the people are alive to the question of associated dairying and the production of gilt-edged butter. Fgures were given, showing that many cows now kept would not give two lbs. of butter per week, but that by weeding these out and introducing improved stock, this may be increased to a pound or more per day, and by the use of the creamery its value doubled or trebled, thus adding hundreds of thousands of they have persuaded the latter that the thinner the sowing the better the crop, and thus the western farmer does not sow more than two or three pecks to the acre more than two or three pecks to the acre. Now while it is quite true that when flax is sown for the seed only, it requires to be sown thinner than when the production of good fiber is the object, the above quantity of seed, even if quite pure, would be inadequate, but when, as stated above, it is intermixed with at least 40 or 50 per cent of impurities, the quantity of seed capable of germination is, in reality only from one to one and a half pecks used. only from one to one and a half pecks per acre, and this could not possibly produce a satisfactory crop. If, on the contrary, one bushel of the best seed, and entirely free from impurities and weed seeds were

sown on clean land, there is no doubt but that crops of 12, 15, and even 20 bushels per acre would be produced, instead of, as now, from 5 to 10 bushels per acre, averaging from 7 to 8 bushels, which does not pay and leads to the abandonment of the flax crop.

As to the remedy to the present unsatisfactary state of things in regard to flax cultivation in the Western States, it must be evident to every one who, with must be evident to every one who, with an unbiased mind will look into the an unbiased mind will look into the matter, that only a radical change in the prevailing practice will produce a change for the better and prevent the entire disappearance of the flax crop. The farmer must prepare the land intended for flax more carefully than hitherto, and above all keep it as clean as possible, and further, he should scornfully reject all seed which is not perfectly clean and free from which is not perfectly clean and free from weed seeds, and if he can not procure such seed, he should rather entirely dis-card the flax crop which would only cause him disappointment and loss. But

sown on clean land, there is no doubt but

cause him disappointment and loss. But the best plan would be to buy his seed from one of the large respectable seed houses, whose seed, although higher in price, will be much cheaper in the end by producing a remunerative crop. Owing to the degeneracy of the do-mestic seed, which has never been re-newed to any considerable extent since its first introduction into the United States. I would strongly recommend to States, I would strongly recommend to sow next season genuine imported Russian or Dutch seed, which may be procured from the said seed houses, and which, with proper cultivation, will produce superior crops both of seed and of fiber. Thus, and thus only can the flax crop be rescued from the state of degra-dation and neglect into which it has fallen in the Western States, and become again one of the most profitable of all farm crops.

H. KOELKENBECK.

MISSOURI AS A DAIRY STATE. Missouri can be made a great dairy

Hay Presses-Ertel vs. Dederick. EDITOR RUBAL WORLD: I presume you spared long enough, to aid in bringing this about. We are willing to write, know that an infringement suit on hay presses has been pending during the last year, between Dederick and myself. The case was of this nature: I obtained a patent, talk, travel, advise, and do anything and July 18th, 1882, on a certain knukle power, as used on my Farmer's Friend hay press, which is a very good power, and it seems Dederick also thought so, as he is using it right along dairy States we have at present, as we can pasture our cows on grass at least a month longer in the fall, and a month earlier in the spring, than can the dairyman in the States north of us. Then our grass lands are not surpassed by any State—blue grass coming in spontaneously everywhere—clover, white and red, succeeding admirably; timothy, orchard grass, red top, thriving throughout the entire State, furnishing the most luxurious pastures and meadows. Then on his Reversible Press, of which he is boast ing so much, even that he can beat anything of the kind made. I take pleasure to inform you herewith, that on the 30th day of last January; the case was decided in my favor, where it justly belongs, and now it remains to be seen what Dederick will have to do in future as regards using that power, my property. Please make a local note of the above ur columns, and greatly oblige yours re tfully, Geo. Ertel, Quincy, Ills., Feb. 15th,

> -Can you or any of your readers tell m through the RURAL WORLD where can be had such material as is needed for making fruit cans, for canning fruit. Also the necessary directions for constructing cans.—J. B. G., Keilville, Kas.

Potes-Correspondence.

-Will Alfalfa do well on wet bottom land in Scott Co., Ills?—O. Y.......No sir, it will not.

—Where can I get a centrifugal for swinging out augar?—J. M. C., Coffeville, Texas:

.....This is but one among many enquiries received at this office for centrifugals and other sugar makers supplies. Surely it would pay the manufacturers to advertise them.

-Will you please give me the address of a party from whom I may buy a good Poland-China hog, as good stock as can be had in this country; also the address of some one from whom I may get a description of the best stock of white hogs in this country, and oblige yourstruly.—W. C. Wrightsman, Ozark, Missouri.....See our auvertising column for both.

-In your next issue of the RURAL WORLD please give the address of the gentleman who wrote you for particulars regarding an advertisement of a jack; he hails either from Iowa or Minnesota. You advised some of the farmers to club together and buy one. It appeared in the RURAL WORLD about three weeks ago.—J. A. Spies, St. Jacobs, Ills. have not preserved his address.

-Is Cahoon's Patent Seed Sower what it is recommended to be? Can farmers use it suc-cessfully?—R. G.....REPLY.—Any intelligent farmer can soon learn to use it in sowing all kinds of seed, much better than by hand. It distributes the seed more evenly than hand sowing, and the seeding can be done three or four times faster. You will find it advertised in the RURAL WORLD by the L. M. Rumsey Manufacturing Co., St. Louis.

—Will you be kind enough to answer through the RURAL WORLD, the following questions: 1st. Who shall I address for Dr. Danelson's Counselor? 2nd. We want some man to come in here with a good Jack. He would have a good chance to sell him, or he could hire some one to stand him. I do not think that there is any Jack in this county, Carroll.) If some man will write I will give any information I can.—John O'Donnell, Car

-ED. RURAL WORLD:-As I am now dissen nating the Hansell Raspberry, Early Harrest Blackberry and Jessica Grape,—the earliest varieties of their respective classes, and I believe to possess great merit beside—I de-sire to have them tested in various parts of the country. Knowing none so likely to carefully and thoroughly determine their value as Agricultural and Hortfcultural Editors, I will be pleased to mail plants of one or all, as may be desired, to Editors upon application any time prior to March 15th.—J. T. Lovett, Little Silver, N. J.

I see the Thomas Harrow advertised by C. A. Reitz in the RURAL WORLD. Is it what it is represented? Do you recommend harrow is winter wheat with it in spring?—Young Farmer.....The Thomas Harrow is highly recommended, we believe, by all who have used it. We have used it with decided advantage in early spring on wheat. The ground is loosened, making a sort of soft mulch for the plants. After the beating rains of winter a hard crust is formed, and it is better to break it up, and this is done with out tearing up the land.

-The American Art Journal, published and dited by W. M. Thoms, of New York, continues to hold its own as the leading musical journal of the country. For forty years or more, it has labored to educate the popular taste for a higher grade of music, and the best of evidence that all this work has not been in vain is seen in the fact, that the Journal is not only alive to-day, but that it is as flourishing as a green palm tree—the reason being, that each issue contains better analytical criticisms, a greater display of justness, a larger collection of new and ineresting facts, and withal a comprehensive eview of the doings of the trade, than can be in popularity, and we hope we shall never live to see the day when it will be otherwise.

Che Cattle Pard.

H. D. Ayres writes that his herd is winter ng well, and will be in good fix on the day of sale, 9th of May next.

H. D. Ayres, of Breckenridge, Mo., 'advergood stock.

Wm. Pritchett of Frankford, Pike County, Mo., claims 22nd of Oct. 1884, for his day of sale. He will sell shorthorns and graded stock. Has 45 head of shorthorns now and 25 head of calves this spring.

J. W. Stillwell & Co.'s cow Antrim 2nd, No. 246 H. H. B., dropped a heifer calf two weeks since that weighed 125 bs. In reporting the fact J. W. S. significantly asks your shorthorns now? and adds: I shall keep the calf and see what the outcome will be.

Have our readers noticed the sale of Short horn and Jersey cattle advertised by Alex. McClintock & Son, of Millersburg, Ky., and R. W. Owen, of North Middleton, Ky., to take place at Marshall, Mo., on Wednesday, March th next? That will be an important sale and

The spring sales of Kentucky Shorthorn advertised in these columns to come off at Dexter Park, Chicago, on the 115th, 16th, and 17th April next, will command national attention, because the men parties to the sale are well known and reputable breeders, and cattle they offer highly bred and worthy the ttention of the best breeders in the country ome two hundred and fifty head of animal of both sexes and of some of the very bes families known to Shorthorn history, will be found in the sale, and many of them will ex-cite a very sharp competition ere those want-ing them will get what they want.

We hope the readers of the RURAL WORLD will carefully read the advertisement, write for catalogues, determine what they want, lay off those three days for service at Chicago and be sure to be there, to get if ossible what they want.

It is known to the breeders of the State that the Missouri Shorthorn Breeders Asso ciation will meet in annual convention at Sichers' Park, Sedalia, on the first Wednes-day in April, the meeting to continue two days. The committee on programme desire the preeders of the State, each and all of them. to send names of themselves, with their P. O. address, and the number of cattle they have to W. H. Evans, chairman, Sedalia, Mo., as soon as possible. The association is very anxious to present an attractive programme and to make of this the best and most influential meeting ever held. We cannot urge upon our readers too strongly the importance of

responding to this request, that the number of breeders and of cattle in this State may at least be approximated and in that regard placed in the list of Shorthorn States.

You enquire what our card in the Breeders Directory in your paper, has done for us, and we have pleasure in saying that it brought us ore business than we could do. That is, we could not supply the demand brought about by the little card in the RURAL WORLD.

W. H. & T. C. EVANS.

Diseased Cattle.

We have the two inquiries which follow from two distinct sources, indicating any thing but a pleasant condition of things. We would be very much pleased to have the ex perience of those who have seen and treated the disease. In the meantime we suggest an absolute change of diet, and protection from the weather. Feed bran in mashes, if possible, until the scours decrease and the appe tite improves. Feed treely of oil cake meal from two to four pounds a day, according to age. Again we invite experience and sug-

I have a disease among my cattle and yearlings. Commence with cough and gradually decline in fiesh, eating but little. The food does not seem to digest, and gradually goes into something like the scours, and has a very bad smeil. Please advise me through your paper or by letter, the best treatment

Will you please answer through your valuable paper, the following: Our cattle have a disease that we cannot account for. Symp toms, first staggering, stiff, falling down twitching of muscles. Lasts about one day Reoccurs once in one and two weeks. Cattle are hearty; will eat when down. The muzzle

Parsons, Kas.

Colorado's Cattle.

The cattle interest of Colorado, says the Denver Journal of Commerce, is only second to that of mining. The number of cattle now in

Bent	49.18
Boulder	23,31
Chaffee	5.11
Clear Creek	2,61
Conejos	17,47
Costica	13.68
	31.02
Dolores	1.63
Douglas	25,33
Elbert	
El Paso	51 41
Fremont	34.07
Gilpin	
	15.00
San Juan	2,20
Gunison	97.94
Hinsdale	1,50
Huefano	33,00
Jefferson	20,00
Lake	3.00
La Plata	30,00
Larimer	22.24
Las Animas	94,84
Ouray	9,15
Park	35,50
Pitkin	15
Pueblo	27,90
Rio Grande	7,150
Routte	
	23.374
Summit	8.12
Welde1	
TT CIUC- *** * * * * * * * * * * * * * * * * *	10,44.

"A total of 1,055,103. The new counties, from which we have no report, will probably swell the number to one million and a half."

The Horseman.

Banish the Check Rein.

Mr. Wallace, of the Monthly, in his February issue, comes out strongly against the use of the check rein. He says, "when a man finds a check rein in his stable let him throw it out, and send his blockhead of a traine whirling after it."

In a late issue of the RURAL WORLD We spoke of the abuse of the check rein. The best things may be used so as to be abused, but, because they may be abused, in o good reason why we should be deprived of them. We fear Mr. Wallace writes too much from a theoretical standpoint. He will not find one horseman in a hundred, even the most humane and intelligent, to agree with him. They will agree with him that the check rein, in many cases, is nis-used, but they will say it is also in many cases properly used—that some horses cannot well be controlled without it. Some may need a check rein to prevent this dropping of the head to a lazy, drooping, unstyl-

enough to keep it properly.

Some trotting horses cannot be recovered from a break, if the check rein is not used to Chief blood could be multiplied until the prevent the horse from throwing down his head and getting such a purchase on the bit as to render it impossible to control him. the potency of it when coupled with many Every driver of experience has had horses other strains. Croxie-record 2:1914-was by that would do this, and that would be use-less but for the check rein to prevent it.

would not make such a sweeping charge against it. The fact that all drivers use them on some horses, is a pretty good reason that it should not be banished entirely-for cer ainly men of reading and thinking capabilities, who have done nothing but handle horses all their lives, ought to be better judges than Mr. Wallace, who has been driving orses chiefly in his sanctum.

We agree with him that the check rein is greatly abused sometimes by keeping the head too high, and for too long a time, but it is cruel, ignorant drivers that do this, and they abuse horses in a hundred other ways also. The check rein should be used to prevent the horse from improperly using his ead. That is its chief office, and for that purpose it will be used by intelligent horse nen as long as the noble horse is driven.

Trotting Horse Owners—The Rules Amended by the National Association.

The National Trotting association held its biennial congress yesterday at the Fifth Ave one hotel, Judge James Grant of Davenport Iowa, presiding. Nine-tenths of the 217 as sociations which constitute the association were represented either by members or by Among the best known of the horse men present were David Bonner of this city Maj. H. C. McDowell of Kentucky; the Hon Jesse D. Carr of California; George Sturge of Philadelphia: Burdett Loomis, Alexander Harbison, Thompson O. King, and T. J. Vali of Hartford, Conn.; L. J. Powers, Spring-field, Mass.; William Edwards, Cleveland, O.; Alden Goldsmith, Washingtonville, N. Y. George W. Archer, Rochester, N. Y.; M. T. Grattan, Preston, Minn.; D. L. Hall, Chicago, Ill.: A. G. Hancock, Kansas City, Mo.; E. L. Lowrey, Mendota, Ill.; George M. Oyster, Jr., Washington, D. C., and Edward Chapin, York, Pa. The report of the treasurer showed a balance of \$5,859 75 on hand. The secretary's report showed that the associations which are members of the national body had during the past two years awarded

\$1,662,641 32 in purses and stakes.

The principal business at the congress the consideration of the rules, which we variously amended in matters of no speci moment. The change of the most impor ance was in the rule relative to the condi tional entry of horses in races. This was amended so as to punish any association which accepts conditional entries for trotting events, by providing that when such a course is pursued the association shall forfeit to the national body the entire amount of the purse offered, one-half of which shall go to the informer.

There was a lively contest over the propo sition to create a rule providing that in races for purses not exceeding \$200 the time made shall not stand as a record against the horse. This was offered in the interest of the West-ern breeders. It was not adopted, however, because of the opposition of the Eastern men, who held that such a rule would result in keeping entries from the green and slower classes, and so operate against the interest of the racing meetings.

To a committee of seven was referred the proposition to create a national stud book, the committee being instructed to report to a meeting of the board of review, to be held in Chicago next May. It was also voted that no by-law shall be adopted until after its presentation to one congress and acceptance by the following congress.

The rules were also amended so as to pun ish by substitution any driver who shall pull-his horse so as to prevent his winning a heat or "place," which it is apparent he could win If honestly driven. The penalty for delaying in scoring was fixed at not less than \$5 nor more than \$50 for each offence. A penalty was also imposed for the helping of any horse in a race by the drivers of other horses. A penalty of \$50 was also fixed for any driver who shall drive on any non-association track while under suspension.

Officers were elected as follows: President, James Grant, Davenport, Ia.; vice-presidents, Gen. W. S. Tilton, Togus, Me.; the Hon. S. K. Dow, Chicago, Ill.; district boards, Eastern district, Burdett Loomis, Hartford, Conn.; George M. Sterns, Chicopee, Mass., and John Shepard, Boston, Mass.: Atlantic district, George Sturges, Philadelphia, Pa,; Paul H. Hacke, Pittsburg, Pa., and David Bonner, New York; Central district, Maj. H. C. McDowell, Lexington, Ky.; M. T. Payne, Kansas City, Mo., and Thomas Axworthy, Cleveland, O.; Western district, M. M. Morse, Earlville, Ill.; U. C. Blake, Cedar Rapids, Io., and D. L. Hall, Chicago, Ill. Pacific district. N. T. Smith, San Francisco, Cal., and L. J. Rose, San Gabriel, Cal. The next congress will be held in Chicago in February, 1886.— New York Times.

Mambrino Chief Blood in the Trotter.

Mr. Simpson, in the Breeder and Sportsman, says: "Though many years ago there were bitter controversies over the position which Mambrino Chief was entitled to fill in the trotting records, every man who is conversant with the subject, and not swayed by prejudice, must acknowledge the great merit of the descendants of this norse. The blood mixes kindly with others of the great families of trotters, and though we claim that every one of the great families of trot-ers are greatly benefited by a direct strain of thoroughbreds, few will question the advantage which has followed incorporating it with the Mambrinos. Thus, the first which gave the highest celebrity was the great, truly great, mare Lady Thorn. Her dam was by Gano, a thoroughbred son of American Eclipse, and her grandam by a son of Sir William, a thoroughbred horse by Sir Archie. Those who had the best knowledge of the capacity of Lady Thorn, when thoroughly posted in regard to the fast trot-ters of the past and present, rank her as be-ing the peer of the best, and Dan Mace had the utmost confidence that the accident which disabled her was the sole reason she did not make a mark which would have been close to the best on record now. The Mambrino Chief stallions which have gained distinction have been from highly bred mares.
The Sire of Black Cloud, who made so capital a race at Chicago, is Ashland Chief being a mare by imported Yorkshire, and his gran-dam imported Flounce, by Mulatto. The sire-of Abbotsford was Woodford Mambrino, by Mambrino Chief, and his dam Woodhine was by the thoroughbred horse Woodford. She was also the dam of Wedgewood—record 2:19; horses, when they first come out of the stable, was also the dam of Wedgewood—record 2:19; will carry their heads high and show style and this gives additional value to her offtises a lot of young bulls for sale and it will and spirit, but after awhile will droop their pay breeders to look at them. He always has good stock.

and spirit, but after awhile will droop their progenities of trotters in her own inherit-proper drooping. In pairs, one of the team ance. Woodford Mambrino, though not trotted in public until he was fifteen years old, made a record of 2:21%; and his get made a fine showing in the calender—Abbotst enough to keep it properly.

a fine showing in the calender—Abbotst 2:19%, Convoy, 2:22%, Magenta, 2:24%, etc.

> space occupied would be far beyond the limits of these sketches. A few more will show a son of Mambrino, Clark Chief, and this horse was also the sire of Woodford Chief, We think, if Mr. Wailace had a little more 2:221/4; Blanch Armory, 2:26; and several practical experience in handling horses, he others in the 2:30 list. The dam of Proteins 2:10—was by Mambrino Chorister, a son of Mambrino Chief, and another son, Mambrino Patchen, has five, with records running fro :23 to 2:30; and still has another son, Ma prino Pilot, a large number of fast ones to h credit, from Hannis, 2:17%, and Mambrin Gift, 2:20 up, Santa Claus and Piedmont has ach two crosses of Mambrino Chief, so that the four stallions next to Smuggler, with records of 2:17%, 2:17%, 2:17%, 2:17%, are strongly imbued with the blood. Mambrino Chief bears the same relation-

Illustrations of the value of the Mambrino

ship to the thoroughbred Mambrino as Rysdyk's Hambletonian, both being grandsons, the sire of Mambrino Chief, Mambrino Pay master, the dam of which was by imported Paymaster. Thus, on the one side of the sire. Abbotsford has many near kindred of the greatest distinction, and his dam Columbia, by Smith's Young Columbus, is also hon ored by a relationship to many of the celebrities of the tracks. Her sire also got Myron Perry, 2:244, Sea Foam, 2:244, Commodore Vanderbilt, 2:25, Harry Harley, 2:254, Phil Sheridan, 2:264, Ben Smith, 2:27, Farmer Boy, 2:28, Jim Warde, 2:28%, and Fitzgeraid, 2:30. columbia was also the dam of Dido, a very fast pacer and now in the Sunny Slope stu

-The North Texas Spring Trotting Circuit will begin at Gainesville, Tex., on April 1. The Gainesville races will last four days. Outside of the trotting and pacing races there will be running races for two and three-year-olds, a mile dash, half-mile heats and mile heats for all ages. The Fort Worth races will last from April 8 to 11, inclusive. races will last from April 8 to 11, inclusive.
There will be two running races each day for
large purses. The circuit will close at Sherman. Tex., where the races will last from
April 15 to 18, inclusive. There will be a running race each day, and two on the last day,
one of those a censolation race.

Death of Midnight.

ed mare, Midnight, bred in dam of Jay-Eye-See, 2.10%; 4, and other well known trot-week, in California, after givcolt by Electioneer.-Press Dis

will she see that dear creature, se trotting alone against time. n the shores of the mighty Pacific, om the sour-mash scenes of he

of her grief-stricken son and then nder he horrible bondage of Fate— n the morn of his sorrow to wande he country and trot in 2:08.

of the daughter that mourneth in Hoink of the other one down in Kentuck; of their tender young hearts will be broken— th girls are playing in pretty hard luck.

nk of the colt to be raised on a bottle; low like a lily will droop his proud head nk of the sighs that will raise in his throt hen he is told that his mamma is dead.

n reference to the breeders' directory in is issue it will be seen that Mr. E. J. File of Hillsboro, Montgomery Co., Ills., has a llion for sale. Read it and write, or better

-W. J. & W. H. Lewis, Woodlake, Ky., have old to A. J. Briggs, Superior, Neb., the bay weanling colt by King Rene, dam by a son of lmont; 2d dam by Melbourne, Jr. This colt ok the first prize of \$100 offered by Major Dowell for the best of King Rene's get at Louisville Fair.

the two trotting stallions, Durango and orge Sprague, have been matched to trot, ate Fair week, over Chicago Driving Park arse, mile heats, for \$1,000 a side. Durango as a record of 2:23% and is owned by A. tuder. Peoria, Illinois, George Sprague is wned by Wm. Babcock Sr., of Canton, Illinois, and has a record of 2:21. The race will be one of much interest.

—J. C. McFerran & Co., breeders at Glenview Stock Farm, Ky., had three horses of their breeding drop into the 2:30 list the past year. One was Day Dream ch f, 1879 by Cuyler; dam, Lucia by Rysdyk's Hambletonian; second dam, by Marlboro son of imp Trustee. She took the last three heats in a seven heat race, and made a record of 2:213/ in the fifth heat. Elvira bl f, 1880, by Cuyler; dam Mary Mambrino by Mambrino Patchen, mikde a record of 2:27 at Louisville. Mr. Mc Ferran begins to reap his reward for his loy-alty to Cuyler in days of adversity. The third horse is Pancoast by Woodford Mambrino: dam by Harold, sire of Maud S., who de a record of 2:25% at Louisville.

In 1883 there were 201 members of the National Trotting Association. During that year \$697,124,32 were distributed in purses, and 8,118 horses started in races. Last year there were 217 members, and the purses amounted to \$960,562,160r which 9,942 horses competed. The total amount of money contested for and distributed under the administration of the association for the four years previous to 1822 was \$2,345,358, or a trifle more than \$600,000 per year. The statistics for the last two years show the amount divided to more than 34 per cent. per annum over the preceding period. The purses trotted for and paid out by the various tracks throughout the country during the past six years exhibit the enormous amount of \$4,303,644,32. National Trotting Association. During that

Remarkable Restoration in the Case of a Clergyman.

Rev. A. W. Moore, of Darlington, S. C., sends us for publication the following results in his case:
"Darkington, S. C., Jan. 16, 1883.
"Messras Strakkey & Palen:—Though you have not solicited, I feel it to be my duty to give the following testimonial in favor of Compound Oxygen. I inherited the pulmonary taint from my mother; and have suffered with Bronchitis from my youth. For the last three or four years, in the early fail, I have been prostrated with an acute attack of severe Bronchial Asthma. Last fail this attack was unusually perilous, being complicated with a general derangement of the liver, kidneys, &c. My medical advisors could not give much hope of any further work in the ministry.

give much hope of any further work in the ministry.

"In December I commenced the use of your Home Treatment. Shortly after I began its use, nearly all the symptoms were greatly aggravated, but for the last three weeks I have been improving. The constant expectoration has to a great extent ceased. I have a fine appetite; my digestion is good. I sleep well. I am now preaching twice on Sunday without lassitude. I feel more vigor—more life than I have for years. I believe the 'Compound Oxygen's a blessed, providential discovery, to which you were unconsciously directed by the great Healer.

"Gratefully, (Rev.) A. W. Moore." Our "Treatise on Compound Oxygen," containing a history of the discovery and mode

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We call the special attention of our readers to the advertisement of Mrs. Lizzie E. Cotton, in an other column, under the head of "Honey Bees."

Cuts from barbed wire fence, cured with Stewart's Healing Powder. No scar or gray hair, 50 cts a box.

BREEDERS' DIRECTORY.

CTALLION FOR SALE.—Bay color, foaled in 1880, by imported Imp, a full-blood Norman, dam Old Dolla, a first-class box irc. Also Suffolk Swine, pigs ready for livery in March. E. J. FILE, Hillsboro ontgomery Country, ill.

WM. J. MILLER, Breeder of Short-Horn Cattle, Percheon Horses and Berkshire Hogs, Turkey Hill Farm, Belleville, St. Clair County, Illinois.

B. SCOTT, Sedalia, Mo., breeder of Short Horn Cattle, Poland China Hogs and Cotswold Sheep. Anything in the herd for

UERNSEY CATTLE, Oxfordshire Sheep, Plymouth Rock Fowls, Pekin Ducks, White Holland Turkeys, all pure bred and low price. Henry C. Eckert, Belleville, Ill.

MERINO SHEEP and Light Brahma fowls, all of the best strains. R. T. McCulley & Bro., Lee's Summit, Mo. Prices reasonable.

J. W. BLACKFORD, Bonaparte, Iowa, Breed-er and Shipper of Pure, Recorded Poland China Swine of best strains. Correspondence invited. Prices reasonable. Satisfaction guar-anteed.

HEREFORD AND ABERDEEN - ANGUS CATTLE—Gudgell & Simpson, importers and breeders, Independence, Mo. An inspec-tion of their herds is invited.

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KANSAS SHORTHORN CATTLE—Robert of Shorthorn Cattle of the best families. Stock for sale. Inspection invited.

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D. W. McQUITTY, breeder of Merino sheep, Berkshire swine and high class Poultry, Hughesville, Pettis Co., Mo. Has 400 rams ready for this year's service. CHARLES E. LEONARD, proprietor Ra

venswood herd of Shorthorn Cattle, im-ported Spanish Jacks and Jennets and Meri-ao Sheep, Bell Air, Cooper Co., Mo., or Prince-ton, Mo. P. R. R. HIGH CLASS BATES CATTLE, bred and for sale by M. W. Anderson, Independence, Mo. Craggs, Barringtons, Harts, Places Acombs, &c. Kirklevington Duke 2d 32990 at head of herd.

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Jacks.—I have for sale Jacks, Hogs, and grade and thoroughbred Shorthorn bulls W. H. BASS, Columbia, Mo.

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Ashland.

STALLIONS FOR 1884.

STALLIONS FOR 1884.

The following stallions will make the season of 1884 at Ashland, adjoining the city of Lexington, Ky.:

DICTATOR,

brown. 18 1-4 hands high, feated, 1863, got by Reydy's Hambletonian, at our Clean by Seeley.

American Star, second dam the McKinstry mare, the dam of Shark, record 227 3-4. Dictator is full brother to Dexter, record 2:17.1-4. Alma, record 2:28-4. and Astoria, record 2:29 1-2, trial 2:29 1-4, and he is the sire of Jay-Eye-See, b-yr old record 2:10-4, Phallas, 6-yr old stillion second 2:161-2, Dictor, 6-yr old stallion, record 2:17, &c. Service fee for the season 3300, cash.

KHING RENE.

bay, 15 1-2 hands high, solied 16%, so to y Belmont, let dam Blandina (the dam of Abdallah Pflot. Swigert, &c.) by Mambrino Chief; second dam the Burch mare (the dam of Rosalind, record 2:27 3-4, and Donald record 2:27 3 y Brown Pflot. King Rene is the sire of Fugue, 3-yr old record 2:27 1-4. Here very handsome, beautifully grited and endowed with the power of transmitting his qualities in a remarkble degree. He has taken the champion premium for "the best covered that there of in heavyer exhibited 6 times at the Lexington, Louisville, Cynthiana, Ky., and Chicago, Ill., Fairs. Service fee for the season \$100, cash.

Chicago, Ill., Fairs. Service fee for the season \$100. cash.

TRITON,

(full brother to Trinket, record 2:14), bay. Ill hands high, foaled 1877, got by Princeps, lat dam Oulds by Rysdyk's Hambletonian; 2d dam by Entaws; 4th dam Jing. Consternation; 3d dam by Entaws; 4th dam Jing. Consternation; 3d dam by Entaws; 4th dam Jing. Consternation; 3d dam by Entaws; 4th dam Jing. Consternation; 5d dam by Entaws; 5d dam Jing. Consternation; 5d dam by Entaws; 5d dam Jing. Consternation; 5d dam by Entaws; 5d dam Jing. Consternation; 5d da

H. C. McDOWELL, Lexington, Ky.

Trotting Bred Horses

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STALLIONS IN USE.

YOUNG HAROLD 1829, got by Harold (sire of flaud S., 2:10 I-4) dam by Almont (sire of Aldine, :15 I-2 to pole). Service fee, \$50 to insure. EXILE 1143, got by August Belmont 366 (sire of Don Cossack, 2:28), dam by Mambrino Patchen 56 (sire of London, 2:20). Service fee \$25 to insure.

(sire of London, 2:29). Service fee \$25 to insure. CLAY CUYLER 1707, got by Cuyler 100 (sire of Day Dream, 2:22] -12 at four years), dam by American Clay (sire of Maggie Briggs, 2:27). Service fee \$25 to insure.

The BROOD MARES are by the following sires: Harold, Cuyler, Princeps, Pancoast (2:25 1-4), Albini, Woodford Mambfluo (2:21] -12), Alexander's Norman, Woodford Abdallah, Kentucky Rocket, Ben Fatchen, Blood Chief, and Clark Chief, Jr. Young Stock, Matched Pairs, and Igood Driving Horses for sale at all times.

Stock shown any day except Sunday. Good box stalls and pasture at reason nares left for service. Also, RED HOGS for sale.
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FOR SALE.

I have **Twenty Young Shorthorn** Bulls, from 12 to 20 months old; good ones, nicely bred and all sent for record in the 26th Vol. A. H. B. Don't wait for prices, but

Come and See Them, and I will self them worth the money.

H. E. AYRES,

Breck enridge, Caldwell Co., Mo

SHORTHORNS & JERSHYS.

IMPORTANT AUCTION SALE

On Wednesday, March 5th, 1884.

We will sell in the city of MARSHALL, MISSOURI, commencing at 10 o'clock, a. m., 45 head of high-bred young Shorthorns, consisting of 35 females and ten extra red bulls, mostly ready for service. They are good representatives of the following families: Bates topped P.ri's, Waterloog, Rose of Sharons, Young Marys, Phyllises, Sciophinas, &c., &c., headed by the grand show and breeding bull, Oxford Knightly 2nd 10317, one of the very best sons of the great 5th Lord Oxford.

Every animal recorded (or accepted for record) in A.H. B., and will be sold without limit for cash.

limit for cash.

Also, 15 HEAD OF CHOICE A. J. C. C. REGISTERED JERSEYS—13 cows and heifers, and two young buils (a Pansy and Coomassie). The cows and heifers are bred to the very best buils (Compo Boy 2830, Son of Signal 1170, and Grand Rex 5668, Son of Rex 1330), and are such animals as will give good satisfaction to purchasers. The buils are suitable to head any herd. Also, two extra black Polled Heifers, 15 months old—Galloways.

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PADDY-LUCILLA. Jersey Bull and Bull Calf.

FOR SALE.

SIRE imp. Paddy 899, dam Lucilla 3d, 9786, dropped April 6, 1862, and Dec II. 1883, respectively: both and show a last beautiful of the state of the s

KENTUCKY

APRIL 15, 16, 17, 1884, AT DEXTER PARK, CHICAGO, ILL.

J. M. BIGSTAFF, Mt. Sterling, Ky.,

will sell on April 18th, 1884, at Dexter Park, Chicago, Ill., "from the Springfield Herd, 80 shortborns, including two pure Bates bulls, one Place bull—the highest bred one we know of—Lady Bickerstaffs, Roan Duchesses Blooms, Rosabellas, Rose of Sharons, of the Renick Branch, Marys, Cowslips, Galataes, etc., topped, by pure Bates, Duke and Oxford sires.

J. S. BERRY, of Sharpsburg, Ky., Will sell on the libth day of April, 1884, Kirk-leyingtons, Roan Duchesses, Cypresses, Marys, Goodnesses, Filigrees, Rose of Sharons Amelias, Myrtles, etc. Among them will be a fine Kirklevington bull out of imp. Kirklevington Princess 2d, sired by the Bates bull 8th Duke of Vinewood, a show bull.

JAMES CHORN, of Thomson, Ky., will sell on April 16th, 1884, at Dexter Park, Chicago, Ill., about 60 Shorthorns, of the following families: Craggs, Fletchers, Gempuchesses, Oxford-Cypresses, Beil Marions, Young Marps, Phylisses, Harriets, White Roses, Rosemarys, etc. The pure Bates bull Duke of Cornwall, will be ideluded in the sale.

HON. A. W. BASCOM, Owingsville, Ky., Will seil about 50 head of shorthorns, from the Slate Valley Herd, at the same place, on April 17, 1884, of the following families: Young Marys, Josephines, Young Physillises, Gems, Vellums, Cowsilps, Donna Marias, etc. The pure Bates Fletcher Duke of Will-mont and 11th Duke of Kirklevington will be included in he sale, together with a nice lot of young bulls of the above mentioned families.

For catalogue of either sale, apply to J. M, BIGSTAFF, Mt. Sterling, Ky

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Short-Horn Calves, Bulls and Heifers, of fashionable colors and pedigree, coupled with individual merit, for sale at reasonable figures. Send in your or-ders and get choice stock while they are of-fered, low down. CHAS. G. MCHATTON, Fulton, Mo.

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50c to \$2 per hour at home. No peddling. ed, and 14 samples worth \$5, for 10c. (Name this paper). Ad'ss H.E.Slayton, Mon tpeller, Vt

SILH CULTURE. Complete instructions for raising the Silk Worm in the Western States, with practical directions for managing a ec-coonery. Price, \$1.00, mailed postpaid on re-ceipt of price. Address Mrs. M. J. HAMMACK, Pinckneyville, Perry Co., Ill. Mention this paper.

TO FANNY FROST.

Along the roughest shores (a) of time, a lady cautious crept, Perfection's ways her joyous, guileless soul,

secure they kept.

Her ever-restless, active mind employment anxious sought, And into wildest fancy's scenes, her hopes

phantastic wrought. with sudden start she'd break the

tenor of her way,

Abrupt essay delight in constant change's

grand display.

Far stretched th' uneven, rocky shore, far beyond the farthest ken,

Yet further still, her thoughts beyond the

reach of favored pen.

Before her vision keen, majestic speeds a surging crowd,
Intent on glory's brightest theme, and treas

ure's worth so proud. Perplexed, could she the problem solve, its covert meaning all?

Th' impending racking woes, deceitful joys that might befall?

The scene is changed: now swift she floats amid the shifting throng, Swept by a mighty force, resistless hurling

The land marks once so well defined, obscured, are total lost,

The mingling hosts advance, recede, with

wildest fury tost. Portrayed you have the busy, passing scenes of human life,

merry often see.

(a) The roughest shores, etc. The context does not completely define the nature of the shores, though before the end of the piece, we perceive that the matrimonial shores are

(b) Spring. (c) Leap year.

4 Affliction's Furnace."

"Affiction's Furnace."

If there is one prayer to which, more than another, literary people should devote themselves with absolute fervor, it is that for deliverance from their friends." Especially should this be the prayer of literary women. If the victim be a man, he will say, with an inimitable air of ease—"I am very much engaged—you will please excuse me," and either betake himself to another room, or politely shut the door in the intruder's face. But we! to what may we fly for relief from the insuperable bore—usually of our own sex—who won't take a hint, no matter how broadly given?

Many a time I have slaved to get through my work in order to have a moment with my pencil, only to be robbed of my reward by some woman, who, seemingly, has no mission save to cumber my room with her too frequent presence. In vain I say "I have some writing to do, and must be alone;" or, "I have hurried with my work in order to finish my writing by en a time," or, "I am very anxious to finish this manuscript, and the presence of any one save my family, renders composition impossible," fingering my pencil impatiently the while. In vain I lock my doors and shade my windows while "baby" sleeps. She "knows I am at home, but supposes I don't hear," and keeps up her disturbance until I very ungraciously open my door and let her in. I say most emphatically, that I detest Sunday visiting or calling, and tell her that I always want to read or write on that day. But, no matter how often she may have seen me through the week, Sunday invariably finds her stranded at my door; and my expressions of dislike produce no visible effect, as the bore seems to consider that "present company" is always excepted, and sits out my leisure hour with the most exasperating coolness. Only unmistakable rudeness will serve her case. The bore is generally possessed of but a limited amount of brains, and is pretty much like one of those stereotyped medical advertisements which disfigure the Home Circle page—when you've read it, its read, and no amount of effo cal advertisements which disfigure the

cal advertisements which disfigure the Home Circle page—when you've read it, its read, and no amount of effort will ever make it anything else but just what it is. I am confidently looking forward to a day when I shall possess a "den" to which I may flee when beset by the scribbling manis; whose doors I may bar, and upon whose lockrail shall be displayed the customary card of exclusion, and in the stronghold of which, "none shall dare molest or make me afraid."

"none shall dare molest or make me afraid."

A few days ago, a caller asked me how I wrote poetry. I told her, just as I did the weekly wash; she did not see the connection. I suppose, had I told her there was any relation between work and writing, she would have smiled incredulously. I have had people come to me when they knew I had scarcely time or strength for the absolutely imperative duties of my housekeeping, and ask me, in the most assured manner, to write them a few verses on some, to them, purely personal matter; and when I refused, they have become offended with me, saying, "It is such an easy thing for you to write. It would only take a few minutes of your time. You needn't stop your work." Had I, after a few hours or days, hard, mental work, sent them the poem, accompanied by a bill for services rendered, they would have considered me very "small" and mercenary; while, on the other hand, had I asked them to do my work—sewing, washing, froning, etc., without an offered remun-

them to do my work—sewing, washing, ironing, etc., without an offered remuneration, they would have deemed me crazy—or something worse.

A friend who thought she wrote well, and had received some complimentary actions through the press, wrote we that and had received some complimentary notices through the press, wrote me that she was seriously inclined to attempt literature as a livelihood—it was such easy work. She was astonished when I wrote her, in reply, that she would find the wash-tub the surer and easier method of winning bread. I don't know what discouraged her; but I do know that she is still occupying a situation in a telegraph office; very well satisfied to let literature alone as a means of livelihood. When I see a woman, struggling along under the tripple burden of mother, wife and housekeeper, and yet managing to keep her wits bright and her pen polished—even though she is "not in society," I just feel like shaking hands with

her, and would be proud of the privi-lege. It requires an amount of courage, perseverance, resolution and fortitude, rarely to be found in other than such a rarely to be found in other than such a woman; and though she may seemingly neglect some of the minor details of housework in her endeavor to bear bravely the quadruple burden, she yet deserves great credit, instead of the usual censure, for doing what she does do, simply through a strong (though perhaps mistaken) sense of duty. Her hands may be rough and scarred and calloused through uncongenial labor, yet I warrant you, her mentality is bright and vigorous, her heart warm and true; yet I warrant you, her mentanty is originand vigorous, her heart warm and true; and when the Master calls her to account for the use she has made of his gift of talents—be it one or more, she will not be afraid to open the record of her life, or to meet the eye of her Judge, knowing "She hath done what she could."

Inyll. IDYLL.

Explanation.

Remarks made by Bon Ami, and which remarks were published in COLMAN'S RURAL WORLD January 10th, 1884, force on me the duty of a reply, which I now proceed to make. The article to which Bon Ami refers was published October 4th, 1883. At the time of their publication, I regarded the remarks of the editor as mere bantering, as taken literally, I knew they were neither applicable to me, nor to the "Editor's Sanctum Invaded." I cannot agree with Bon Ami, that the "Editor's Sanctum Invaded" is sarcastic. The meaning that Webster attaches to sarcastic is evidently foreign to the scope of my article.

Portrayed you have the busy, passing scenes of human life,
With all the telling force of passion, and its endless strife.

Alone, unscathed, you could not bear the fury of the blast,
To try, were rankest folly, and a want of wise forecast.

The mother (b) of the opening year, (c) would fain her power show,
On you, her favored one, uncounted blessings free bestow.

Perchance 'tis then you'll change, and Fanny
Frost just cease to be,
And join the nuptial crowd, which we so merry often see.

Sarcastic is evidently foreign to the scope of my article.

Joining issue with the editor of the Home Circle, I maintain, and will prove, that the "Editor's Sanctum Invaded'is not a caricature cannot be affirmed of my article; neither can his secondary meaning, which is to the following effect:

2. A figure, "or description in which the peculiarities of a person or thing are se exaggerated, as to appear ridiculous."

Now, may I not truthfully and appositely ask: Is it a caricature to say that COLMAN'S RURAL WORLD is eminently reliable in all matters regarding sorg-

itely ask: Is it a caricature to say that COLMAN'S RURAL WORLD is eminently reliable in all matters regarding sorghum, the cow, the horse, the hog. and many other cognate subjects? Had I held up the editor's rather rough interlocutor, as superior to them in general rural knowledge, then, indeed, might the article, "The Editors' Sanctum Invaded" be justly regarded as a most mendacious caricature. But such was, by no means, the scope of the article. I, moreover, flatter myself, that any one capable of distinguishing the difference between fun and humor on the one side, and sarcasm and caricature on the other, ought to be able to trace out the line of demarcation between what I have written, and what they have imagined, who have so strangely misconstrued the "Editor's Sanctum Invaded." The piece is plausible, graphic and dramatic, and it was written with the kindliest feelings in regard to COLMAN'S RURAL WORLD.

Well do I remember, in years long since passed, the keen relish with which I perused any fancy scene in relation to the "Editor's Sanctum," and thinking that others might share the like feelings. I sketched the scene described in the RURAL WORLD of October the 4th.

Finally, it was no caricature to say that just before the great St. Louis Fair,

RURAL WORLD of October the 4th.

Finally, it was no caricature to say that just before the great St. Louis Fair, the editors and the employees of so able a paper, and so widely circulated a paper as the RURAL WORLD, should have been so deeply immersed in their various occupations as not to keefily resent any untoward interruption, from whatever source it might proceed. It was however, a caricature on the part of the editor, to raise the facts of that fancy sketched occasion to the dignity of hisever, a carrieature on the part of the editor, to raise the facts of that fancy sketched occasion to the dignity of history. Juvenis pleads innocent to the charge of any wretched English ever contributed by him to the columns of the RURAL WORLD. Juvenis has a vast amount of self-respect, and it is, too, of such a discriminating nature, that he would deem himself far beneath the dignity of self-respect, were he to permit disparaging criticism to influence him, when he might consider his mental exertions as useful to himself or others. It supremely rests with Juvenis, either to continue to write, or to more leisurely enjoy the master effects of gifted minds, whose productions are worthy of appreciation. I must draw my remarks to a close by a piece,

DEDICATED TO BON AMI. Good friend, so very cute you are, Your wit your knowledge may so mar, And in o folly merge it far.

Maunchausen, is he living still? Did Juvenis, with the Bedford quill, His brain with useful knowledge fill? October's day so long has passed, With living naught can it be classed, Its serest leaf has withered last. Poor Jun'us thinks you were so long,

To sound your toesin and the gong. Perhaps you meant no mighty wrong

Respect has Juv'nis for himself, He seeks no empty praise or pelf; He would not rob the viewless elf.

The Ed., with grin complacent, says he right, And bids him onward go, more steady fight Hurl down his foes, pugnacious in flight.

Now, Bon Ami, may well you fare A mother's love, a father's care, Your soul for good may yet prepare.

Dear friends of the Home Circle, I have been a constant reader of your many contributions to this charmed circle, and have been often both instructed and amused as I whiled away a half hour, once a week, in your company; but of all my many unseen friends in this close corporation there is none who have attracted my attention more than that contracted my attention more than that contributor who signs himself "Watson"; therefore, you will please excuse me if I dedicate my first essay to the Home Circle to this one friend, whom fortune will. I hope, some day let me meet face to

I hope, some day let me meet face to face.
You may, perhaps, Mr. Editor, be induced to admit me into the Circle by reason of my contribution being very short, but I hope you will not consider that its only merit. for if you do, then I know for once that I shall have helped to fill your waste basket, for which honor I have no ambition.

My subject is "Watson," and called

AN ACROSTIC.

AN ACROSTIC.

What—son, he signs himself,
And so a question raises.
To solve a problem 'r yourself,
Study his—or he -parases.
Only bear in mind 'twere better rather
Not forget, a wise child 'tis, that knows its
father.

NOAH. Cross Roads, Mo.

A HUNTER'S STORY.

How He was Overcome and the Way by which He was Finally Saved.

(Correspondence Spirit of the Times.)
An unusual adventure which recently

An unusual adventure which recently occurred to your correspondent while bunting at Brookmere in this State is so timely and contains so much that can be made valuable to all readers, that I venture to reproduce it entire:

The day was a most inclement one and the snow quite deep. Rabbit tracks were plentiful, but they principally led in the direction of a large swamp, in which the rabbits could run without difficulty, but where the hunter constantly broke through the thin ice, sinking into the half-frozen mire to his knees. Notwithstanding these difficulties, the writer had persevered although a very small bag of game was the result. While tramping about through a particularly malarial portion of the swamp, a middle aged man suddenly came into view, carrying a muzzle loading shotgun and completely loaded down with game of the finest description. Natural curiosity, aside from the involuntary envy that instinctively arose, prompted the writer to enter into conversation with the man, with the following result:

"You've had fine success, where did you get that game?"

"Right here, in the swamp."

"It's pretty rough hunting in these parts, especially when a man goes up to his waist every other step."

"Yes, it's not very pleasant, but I am used to it and don't mind it."

"How long have you hunted hereabouts?"

used to it and don't mind it."

"How long have you hunted hereabouts?"

"Why, bless you, I have lived here most of my life and hunted up to ten years ago every year."

"How does it happen you omitted the last ten years?"

"Because I was scarcely able to move, much less hunt."

"I don't understand you?"

"Hecause I was scarcely able to move, much less hunt."
"I don't understand you?"
"Well, you see, about ten years ago, after I had been tramping around all day in this same swamp. I felt quite a pain in my ankle. I didn't mind it very much but it kept troubling me for a day or two, and I could see that it was increasing. The next thing I knew, I felt the same kind of a pain in my shoulder and I found it pained me to move my arm. This thing kept going on and increasing, and though I tried to shake off the feeling and make myself think it was only a little temporary trouble, I found that it did not go. Shortly after this my joints began to ache at the knees and I finally became so bad that I had to remain in the house most of the time."
"And did you trace all this to the fact that you had hunted so much in this swamp?"
"No. I didn't know what to lay it to.

swamp?

"No. I didn't know what to lay it to but I knew that I was in misery. My joints swelled until it seemed as though all the flesh I had left was bunched at all the flesh I had left was bunched at the joints; my fingers crooked in every way and some of them became double-jointed. In fact, every joint in my body seemed to vie with the others to see which could become the largest and cause me the greatest suffering. In this way several years passed on, during which time I was pretty nearly helpless. I became so nervous and sensitive that I would sit bolstered up in a chair and call to people that entered the room not to come near me, or even to touch my chair. come near me, or even to touch my chair. While all this was going on, I feit an awful burning heat and fever, with occasional chills running all over my body, but especially along my back and through my shoulders. Then again my blood seemed to be boiling and my brain to be on fire."
"Didn't you try to prevent all this

"Didn't you try to prevent all this agony?"

"Try, I should say I did try. I tried every doctor that came within my reach and all the proprietary medicines I could hear of. I used washes and liniment enough to last me for all time, but 'e only relief I received was by injections of morphine."

"Well, you talk in a strange manner for a man, who has tramped around on a day like this and in a swamp like this. How in the world do you dare to do it?"

"Because I am completely well and as sound as a dollar. It may seem strange, but it is true that I was entirely cured; the rheumatism all driven out of my blood; my joints reduced to their natural size and my strength made as good as ever before, by means of that great and simple remedy, Warner's Safe Rheumatic Cure, which I believe saved my life."

"And so you now have no fear of rheumatism?"
"Why, no. Even if it should come on, I can easily get rid of it by using the same remedy."

same remedy

same remedy."

The writer turned to leave, as it was dark, but before I had reached the city precisely the same symptoms I had just heard described came upon me with great violence. Impressed with the hunter's story, I tried the same remedy, and within twenty-four hours all pain and inflammation had disappeared. If any reader is suffering from any manner of rheumatic or neuralgic troubles and desires relief let him by all means try this same great remedy. And if any readers doubt the truth of the above incident or its statements let them write to A. A. Coates, Brookmere, N. Y., who A. A. Coates, Brookmere, N. Y., who was the man with whom the writer conversed, and convince themselves truth or falsity. J.

Buchu-paiba," Great Kidney and Urinary Cure. \$1.

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Elowory, Advit, The State of Coale and Coale an

FRIGHTFUL MORTALITY. LUNG AND BRONCHIAL DISEASE.

Before pharmaceutical research had develor—1 the great FULMONIO above-named, the cortain properties of the great FULMONIO above-named, the cortain properties of the great FULMONIO above-named, the cortain properties of the speedy development of fattern of lung disease. To palliate was all that the could do in a majority of cases. But since HALE'S HONEY OF HOEEHOUND AND TAR was introduced, persons sufficient from severe COUGHS ELUTENZA, etc., have no casable to swell be about the contained of the severe of the sever

Pike's Toothache Drops Cure in One Minute.

UMPHREYS'

aption of an eminent physician.—The upie, Safe and Sare Medicines for the practical to the present of the prese

ATTENTION, FARMERS.

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A DESIRABLE STOCK FARM, A DESIRABLE STUCK FARM, of 480 acres, all under fence, about 3 miles of nedge, balarce post and plank and rail. Plenty of stock water. Soil equal to the best, untuilities, but not so as to wash. Plenty lof timber. A good brick and frame dwelling; also one small one for tenants, stable for \$13 head of horses. The place is susceptible of being divided into sk or more farms of 80 acres or less. It is pronounced one of the best stock or grain farms in Central North Missouri. Living water in abundance at from 18 to 25 feet. About 160 bearing Apple trees and some other fruit. Time of deferred payments made to suit purchaser. For further particulars address or call upon D. W. C. EDGERTON, Agent, at Chillicothe, Missouri, or H: M. FRIEND, Mobile, Ala.

For Sale—HILLSDALE FRUIT FARM, estab-lished 1872; 2 miles from Parsons, Kan. Con-sists of 95 acres, 35 devoted to fruit of all kinds. The orchard part is high, and over-looks a vast extent of country, and the view from that point is absolutely splendid. This place, situated as it is near a city of 8,000 po, as a suburban residence and paying invest-ment, should not fail to please the most fas-tidious. Ad. C. G. Wickersham, Parsons, Kan.



GOOD. It will also positively prevent and cure Hog Cholera, &c. Soldeverywhere, of sent by mail for 25c. [a stamps. Furnished in large cans, price \$1.00; by mail, \$1.20. Circulars free, I. S. JOHNSON & CO., Boston, Mass.



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by the leavest the brain is relieved of morbid fancies, which are created by in causes above referred types. Literary men, Merchants, Bankers, Laddies and all those whose sedentary employment causes nervous prostration irregularities of the blood, stomach, bowels oktimeys or who require a nerve tonic, appetizer ostimulant, Samantran Newvise is invaluable Thousands proclaim if the most wonderful invigorant that ever sustained the sinking system \$1.50. Solid by all Druggists.

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These loans are for poor or men of moderate means, in amounts of \$100, \$500 FOR LIFE. Send a cent for particulars. W. ROBERTS, Manager, 195 W. 5th St. Uincinnatt, O.

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We will send THE FARM one year and the following twelve packages of seeds for only 75 cents. The seeds alone are worth from \$15 cents. The seeds alone are worth from \$15 to \$1.50. This offer is not equalled by any paper in the country. The package of seeds contains the following kinds. Egyptian heet, Winningstadt Cabbage, Long Orange Carrot, Dwarf Celery, Early Cluster Cacumber, Early Cabbage, Lettuce, Cuban green Melon, Netted Nutnegs Muskmelon, Red Wetherfield Onion, Sugar Parsnip, Sweet Spanish Pepper, Early Red Turnip Radish. Address THE FARM, Kansas City, Mo.

For Sale. THE MODEL STOCK FARM,

THE MODEL STOCK FARM, consisting of 320 acres of rich, black loam prairie land in the famous Spring River Valley; 15 miles from Carthage the Counself of the Southwest, three from Frisco R. R.—Trunk Line—two sta mis within five miles, 220 acres in cultivatid, 70 acres in grass, remainder in orchards, pts, etc. 1000 young trees just coming into bearing consisting of apple, peach, cherry, plum and pear. Small fruits in abundance for family use, grapes, blackberries, raspberries, gooseberries, huckleberries, currants and strawberries. 80 acres in wheat, 80 acres broke for spring crops, balance corn stubble. Farm fenned with three barbed wiresand cedar and iron posts. Artificial fish pond of about two acres well stocked with German Carp, Mirror and Seale. Good wind-mill and tanks for stock, hydrants in barn, yard and garden. Buildings—New frame one-story dwelling, 6 rooms and cellar. New frame barn, 130x30 ft., 12 feet wall, 2 floors, room for 50 head of stock, 2000 bu. grain and 100 tons of hay. One tenant house with outbuildings. An inextant huse with outbuildings. In large family. Improvements cost about an acre of hardy flowers. In nearly seven year residence have never had a case of sickness in a large family. Improvements cost about a grain and ine with farm. Possession given the first of the signal of the



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Pairp.

ficers Mississippi Valley Dairy and Creamery Association.

esident—Norman J. Colman, St. Louis. the President—Jos. W. Drury, Waterloo, Ill. cond Vice President—Joseph E. Miller, ville, Ills. essurer—Wm. N. Tivy, 424 North Second, retary-Joseph W. Sheppard, 600 Olive t. St. Louis.

H. D. Frisbee, of Cynthiana, Kentucky, advertises in this issue 30 head of full blood Jersey heifers, though unregistered, all from good milk and butter dams. See his advertisement, and write him.

J. W. Stillwell & Co., Troy, Ohio, sold week before last to Hon. W. L. Ewing, Mayor of St. Louis, five heifers and one bull for \$2,100, and one heifer to be bred to their, \$5000 bull, Jacob, for \$400. Thus are Holsteins coming to the front and taking their place in the estimation of the best men and most advanced thinkers in the West. During the same week their sales amounted to the nice sum of \$17.000. In a few weeks we will publish an illustration of their prize herd which is now being engraved at this office.

The farmers of Missouri are surely awakening to the fact, that less plowing and more grass is the order of the day. That sending the crude products of the soil to market, and that often a distant one, costs more money than it does to raise them. That a bushel of corn raised raise them. That a bushel of corn raised at a cost of ten cents, cannot be shipped and handled at a sum less than that; but if put into butter, pork or beef, fifty bushels can be transported at as little cost. This is startling, if true; and as true as daylight on a mid-summer day.

A St. Louis county subscriber writes the can planear efford to ship hay to

A St. Louis county subscriber writes he can no longer afford to ship hay to the city whilst the same may be manufactured into milk or butter, and transported much more handily and at vastly less expense; and if that be the case within a few miles, what must it be after hauling those miles and then shipping two or three hundred more by rail?

No. As a matter of economy we have to utilize our intelligence, and make our live stock do the manufacturing at home and then send the product to market. We have raised wheat and corn and the like, until we have improverished ourselves and our land, and made a few men selves and our land, and made a few men rich by allowing them to charge us what they pleased for transporting it to a dis-

Grass is king; for whether we use it trass is king; for whether we use it for beef or mutton, for pork or lard, for milk, butter or cheese, the plow has little to do with it, the labor is trifling and the cost of transportation homeopathic. Moreover, it is a feed for all the year round, and one that can be used to better advantage than any other for all kinds of stock.

Shall we not, too, discriminate in the kind of stock to raise? The native has done good work and faithful, but some of them are losing us money instead of making it, eating their heads off indeed; and as it costs no more to keep good cows than poor ones, we can very well afford to fatten some and send them to the shambles, and in their place introduce some improved breed. duce some improved breed.

Dairy Convention.

The good, ultimately to be accomplished by the late convention held in this city, can hardly be estimated. The Merchants' Exchange (St. Louis) Price Current, of February 9th, thus refers to it editorially. The Mississippi Valley Dairy and Creamery Convention held its first meeting in this city on the 30th and 31st ult., and was attended by representatives from every State in the Valley. The speakers who appeared before them were bractical men of large experience and reputation. The meeting proved a success beyond expectation, and affords strong ground for the belief that the Association may at their next meeting organize in St. Louis a Butter and Cheese Board after the fashion of Elgin. This subject was broached, but action postponed to a future time. The fee being only nominal, the membership is already large, and composed exclusively of those directly interested in the manufacture or handling of Butter and Cheese. The earnestness and life displayed at the The good, ultimately to be accomphandling of Butter and Cheese. The earnestness and life displayed at the meeting affords a good basis for the belief that this Association will grow to be a permanent and valuable institution to

ol. Norman J. Colman: You are sident of the Mississippi Valley Dairy d Creamery Association. I believe you have been a noted stockman for many years and may be able to advise me of which you think the best stock of cattle for milk and butter combined, and where I would be most likely to find such. My impression is that the Jerseys and Alderneys are too much on one side; too much butter, but I may be mistaken. Please advise me.

lease advise me. Give me also your opinion of what impression a bull of fine milk stock might be expected to make on the milk-ng capacity of good common cows, and oblige,

J. M. C.

Dallas, Texas. Of milk stock we have the Jersey (in which general name we include all the Channel Island cattle) the Ayrshire and the Holstein. Of these, the two last named will give by all odds the largest quantity of milk, and the last has, as ers of each, and form your . N. opinion.

Their names may be found in the RURAL

Their names may be found in the RURAL WORLD always.

The use of a thoroughbred bull of good milking strain could hardly fail to be very beneficial in improving the milk supply of good common cows, much as a Shorthorn would that of beef stock.

The rolled iron portion of your letter we have referred to the L. M. Rumsey Manufacturing Co., of this city, as the best channel through which to do your business. They will in all probability write you. write you.

EDITOR RURAL WORLD: If I was capable of writing articles for your paper upon dairy subjects would like to give my testimony in favor of Missouri for the upon dairy subjects would like to give my testimony in favor of Missouri for the dairy business. I came from the dairy region of Northern Illinois, where for several years had patronized a cheese factory. Have been here 8 years, and know whereof I speak. Have been making butter and cheese, in a small way, since coming to Missouri, and find it much better than Illinois. Have sold our butter to Ira Boutell, St. Louis, for the last few years. Our cheese finds ready market at home at about 12 1-2 cts for summer, and 15 cts. for fall. There is now a splendid opening for some live is now a splendid opening for some live business man to start a creamery in this county. S. C. H.

Short, practical letters on the dairy are invited to our columns always. We shall, therefore, be glad to hear from S. C. H. Let the letters be short and well digested, however, for our Dairy department is apt to be crowded, and we want the views of many briefly and tersely put, rather than lengthy letters from one or two.

EDITOR RURAL WORLD: I ask, that some practical dairyman tell us through the RURAL WORLD the number of lbs. of the RURAL WORLD the number of lbs. of butter per year to be relied on from good common, or grade Jersey cows with good treatment and proper care of milk. The time has come, when St. Louis County farmers can no longer afford to send their hay to market. It don't pay. Besides there would be more pleasure in caring for good cows, if the production of butter could be made to pay in St. Louis County on so small a farm as 50 acres.

Subscriber. SUBSCRIBER Price, St. Louis Co., Mo., Feb. 12, 1884.

Subscriber is right. He can no longer afford to send his hay to market as hay; a tub of butter weighing 100 pounds, worth twenty-five to thirty dollars net, can be sent 500 miles at less cost than a load of hay can to St. Louis. Within the last few weeks we published the experience of one of the best dairymen in the West, which answers "subscriber" to the

During the past year he has milked sixteen cows, five of which were with their first calves. They are all from five-eighths to fifteen-sixteenths Jersey cattle. eighths to fifteen-sixteenths Jersey cattle. In figuring up his last year's business he discovers that from the sixteen cows he has made 5,656 pounds of butter, an average of nearly one pound per day for every cow fed, for which he gets from 32 to 40 cents per pound the year round. His contract with the largest buyers is 32 cents, but others come along now and again and have to pay the retail price gotten by larger buyers, viz., 40 cents; hence, after paying for packages and ex-

again and have to pay the recail price gotten by larger buyers, viz., 40 cents; hence, after paying for packages and express charges, the butter for the year has netted him thirty-four cents per pounds. A little figuring will show that he has made his cows, in milk, produce him a fraction over \$120 per annum; a pretty good value for three or four good milch cows. Being asked how he fed them he replied: I feed my cows on grass all through the summer, but when they come up to be milked, always give them a good feed of dry bran, consisting of about one gallon. In winter, however, when grass is short and sometimes not come-a-table, he keeps his cows pretty close to the stable, allowing them exercise in going to and coming from water, and feeding them on chopped sheaf oats moistened with water, and mixed with bran and crushed corn and cob meal. Two-thirds of this mixture is composed of chopped sheaf oats, the remainder of pran and corn and cob meal. of chopped sheaf oats, the remainder of pran and corn and cob meal.

Abortion in Cows.

EDITOR FARMER: Let me give you some of my experience with abortion in cows. During the past 25 years I have kept about 20 cows on land mostly cultikept about 20 cows on land mostly cultivated in rotation of crops. Seven years of which you find the chers give nice rich milk, with no such taste, and all are treated alike. We feed wheat-bran, corn and fodder. The two giving bitter milk are 10 or 12 years old, the other a Jersey, two years old. One of the old cows gave bitter milk a year ago before calving. After calving, her milk was all right until about three weeks ago, due to caive, 12th May; the other 8th April.

There are many and various causes of bitter milk. The matter was discussed somewhat at the late Dairy and Creamery Convention, but opinions vary. We shall be glad if some of our experienced adders will give their ideas and opinals.

OL. NORMAN J. COLMAN: You are sident of the Mississippi Valley Dairy of Creamery Association. I believe for high years and may be able to advise me of which you think the best stock of cattle for milk and butter combined, and or crange Farmer. l in rotation of crops.

when it is gathered with hay.—G. S., in Orange Farmer.

Wherever milk is used plentifully, here the children grow into robust men and women. Wherever the place is and women. Wherever the place is usurped by tea, we have degeneracy swift and certain. Dr. Ferguson, who has devoted a large share of attention to this subject, has ascertained, from careful measurements of numerous factory children, that between thirteen and four teen years they grow nearly four times. the measurements of numerous factory children, that between thirteen and fourteen years they grow nearly four times as fast on milk for breakfast and supper as on tea and coffee—a fact which shows the benefits of proper diet. No diet is so suitable for growing children as well-cooked oatmeal porridge and milk. Owing to its easy digestibility, it is of equal benefit to invalids, and more especially dyspeptics, who often regain health and pick up flesh at a wonderfully rapid rate on milk, or milk and good bread. Good as cows' milk is for children and invalids, the milk of the goat is much better; and it often happens that persons will thrive and grow strong on the latter, who would not digest the former. For this reason, goats' milk is largely pre-

scribed by the faculty, and would be more so if it were more plentiful. Dr. Pye Chavasse says: "The finest, healthist children are those who, for the first four or five years of their lives are fed principally upon it." He also states that asses' milk is more valuable for delicate infants; goats' milk for strong ones.Modern Age.

The Cream Standard.

The Dairy Farmer, published at Liberty, lowa, gives the following showing of the cream gathering system when conducted on the "average" plan. We give it for what it is worth:

For some time past the Chariton, Iowa, Creamery has been operating upon the test plan of paying for cream, which enables it to pay each patron according to the butter value of their cream. In order that our readers may see the inequality of different patrons' cream we give below a table of individual tests, taking them in their regular order, on one of the largest routes as made during the last half of October. The first column of figures is the number of patrons; the second column the number of inches cream gauge measure; the third column, number of pounds of butter made; fourth column, the number of ounces of butter to the gauge inch:

No.		Inches cream.			No. ounc s to
1		434	412	. 7oz.	15
2		134	1	15	18
3		434	13	7	13
4		23/4	4	2	24
5		934	12	3	20
6		616	6	8	16
7		6	7	2	19
8		634	9	4	22
9		436	8	8	16
10		234	3	4	19
11		1%	1	11	18
12	4444	5%	7	3	20
13	1	6	17		17
14		5	5	15	19
15		434	3	1	11%
16		4	2	4	9
17		8	10	-	20
10		3	2	A	12
18		53/	2	15	9
19		614	3	15	10
20		6%	8	9	18
21		3	2	77	13
22		1134	10	4	14
23		2%	2	1	12
24		26	27	10	17
25					9
26		914	5	3	14
27	****	434	4	2	
28		2	1		12
29		4	3		
30		4	4		16
31		9	9		16
32		8	- 8	**	16
33		3%	3	1	13
34		5	4	11	15
35	*****	3	2	13	13
36		31/4	2	7	11
Total	9	053/	900 #	840Z.	

Here 205 3-4 inches of cream measure made 209 1-4 pounds of butter, and at the same time this number of ounces of butter to the inch varied from eight ounces up to 24 to the inch. Only five among the number made exactly 16 ounces to the inch.

An Enormous Business.

It is now estimated that over \$200,-000,000 are invested in the dairying business in the United States, almost double ness in the United States, aimors double the money invested in banking and com-mercial interests. It requires 15,000,000 cows to supply the demand for milk and products in the United States. To feed these cows 60,000,000 acres of land are under cultivation. The agricultural and dairy machinery and implements in use are worth over \$200,000,000. The men employed in the business number 700,-000, and the horses nearly 1,000,000. The cows and horses nearly 1,000,000. The cows and horses consume annually 30,-000,000 tons of hay. It costs \$400,000,000 to feed these cows and horses. The average cow yields about 450 gallons of milk a year, giving a total product of 6,750,000,000 gallons. Fifty per cent. of the milk is made into cheese and butter.

DAIRY HINTS .- After you have milked do not tarry too long at the pump. A certain amount of water will not be detected, but too much will give you away. Whenever it becomes so thin that you can see the hairs in it you may be sure

can see the hairs in it you may be sure that you have overdone the matter; unless it is sold directly to city people. Then it is but an act of mercy to water abundantly, for if the milk is too strong it will make them sick.

Never milk while a cow is eating. If you do in time you will never milk the cow while she is not eating. Do not encourage bad traits in a cow.

If the cow will not give down her milk, don't swear, don't club her, don't feed her, don't put rocks in a sack and hang them over her hips, don't do anything; go to the house and nurse the baby. When a cow says she won't, why she won't, and there's an end on't.—John M. Stahl.

-The old saying, no grass no cattle, no —The old saying, no grass no cattle, no cattle no manure, no manure no crops, is as true to-day as when first spoken. Grass takes care of him who sows it. The meadow is the master mine of wealth. Strong meadows fill big barns. Fat pastures makefat pockets. The acre that will carry a steer carries wealth. Flush pastures make fat stock. Heavy meadows make happy farmers. Up to my ears in soft grass laughs the fat ox. Sweet pastures make sound butter. Soft hay makes strong wool. These are some hay makes strong wool. These are some of the maxims of the meadow. The grass seed to sow depends upon the soil, and here every man must be his own

-C. R. Beach, of Whitewater, hit one nail on the head when he said in his es-say, Eurotas, did not yield 778 pounds of butter in one year, beside one calf, just because she was a Jersey; nor did the cow which gave 18,000 pounds of milk in one year, do so because she got to giving milk and could not stop. They did it because they were bred, fed and generally cared for, with reference to such results. Try a similar experiment on other cows and be surprised at the re-sult.

Chaff.

There are no nice little stories about the return of "The Prodigal Daughter." The son can return and have the finest yeal served up for him, but the daughter-she must

It is quite generally conceded that when New York man dies he goes to Saturn. He couldn't be content with a future existence in a planet that hadn't as many as two or

Fashion is Queen. Fast, brilliant and fashionable are the Diamond Dye colors. One package colors 1 to 4 bs. of goods. 10c. for any color. Get at druggists. Wells, Richard-

A farmer who was growling at his family and telling them how saving they must be of this and that article of food, etc., received this shot from his youngest child: "Why

lady to Johnnie's mamma during a call. "Splendidly! He talks two languages now. me! What are they—French and Ger "Oh! no—English and profane." 'Dear me!

U. S. Surgeon Recommends.—Dr. J. M. G. Pheeton, if a U. S. Ex-Surgeon, residing now at Bloomington, Ind. The Dr. writes, to say: "I recommend Samaritan Nervine because i es epilepsy." Physicians, generally, are

Remarkable obituary head-line in a West ern exchange: "Death's Shining Mark—The Grim Archer Scores a Bull's-Eye in the Person of an Honored Fellow-Townsman, Alder man Smith—He no longer Blocks the St Committee, but Treads the Golden Pave,

A gentleman who was no longer young, and vbo was never handsome, asked his son's child what he thought of him. The boy's parents were present. The youngster made no reply. "Well, so you won't tell me what you think of me? Why won't you?" "'Cause I don't want to get licked," replied the sprig of



This powder never varies. A marvel of urity, strength and wholesomeness. More conomical than the ordinary kinds, and canot be sold in competition with the multitude flow test, short weight, alum or phosphate powders. Sold only in cans.

ROYAL BAKING POWDER Co., 106 Wall St.

New York

DAIRY SUPPLIES.

FOR SALE.

CARLOAD OF

THIRTY HANDSOME FULL-BLOOD BUT UNREGISTERED

Jersey Heifers

All from

GOOD MILK and BUTTER DAMS.

For sale cheap, H. D. FRISBIE, Cynthiana, Ky.

DAIRY SALT.

BEST in the WORLD for DAIRY and CREAM-ERY purposes. Sold in bulk, barrels or sacks J. F. EWING, Agt. Michigan Dairy Salt Co., 106 N. Third St. SL. LOUIS, Mo.



DAVIS & RANKIN. 55 & 57 N. Clinton St. and 24, 26, 28 Mil-

CHICAGO, Manufacturers of the **FAIRLAMB**

Milk Can For Cream Gather-ing, and Dealers in Creamery Supplies.



The strongest, most natural tint. Gives the Butter no taste or smell. Patronized by the most prominent creamery men. Send fo price list. Mention this paper. BEAN & PER RY Mfg Co., Rockford, Ill.

Engines. Creamery Manufactured only **MURRAY IRON** WORKS CO., BURLINGTON

All Kinds of Engines & Machiner SEND FOR CIRCULAR

HOUSEKEEPERS, ATTENTION

UNION UNION CHURN Sewing Machine = 0000

SENTS WANTED. I full details of either or county; something new; rare chance; outfire. L. I. C. Co., is I can be tree. N. I. C. Co., is I can be tree. N. I.

"How is Johnnie doing at school?" said a A Remedy for Curing CONSUMPTION, COUGHS, BRONCHITIS, ASTHMA and CROUP.

As an Expectorant it has No Equal. Rev. B. L. Selman, of the M. E. Church, gives his words in favor of

Rev. B. L. Selman, of the M. E. Church, gives his words in favor of Allen's Line Balsan.

**READ WHAT HE WRITES. Ca GREENVILLE, ALA., November 12.

**Jear Sirs:—Yours of October 20th to hand, and would have answered before now, but having a supply of LUNG BALSAN, and by its use I was improving fast, I concluded to wait awhile.

**I have had a cough for about twenty years; last year I was troubled much. I thought I would have to cease traveling, but finding some of your valuable LUNG BALSAN in the world day and the second of the cough of the second of the seco

and to preach again.

I could not cell you the amount of medicines I have used in the past twenty years, but I find your LUNG BALSAM superior to anything I have ever used, and I shall use it if I ever need any more, and I shall never cease to recommend your valuable LUNG BALSAM to those who have been afflicted as I have been.

Very truly your obedient servant,

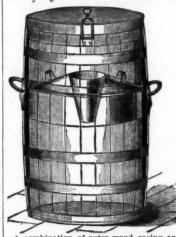
Mrs. Geo. B. Tatun writes from Clinton P. O., Va., Indorsing ALLEN'S LUNG BALSAM in high praise. She had used it freely among the poor and orphan children under

MINISTERS and PUBLIC SPEAKERS.
Who are so often afflicted with Throat Diseases, will find a sure remedy in this BALSAN
Lozenges and wafers sometimes give relief, but this BALSAN taken a few times, will in
sure a permanent cure. CINCINNATI, O.



Batcheller Barrel Churn The Cheapest and Best No iron rim in top for but esale price where w no ag't. Send for cir s to H. F. BACHELLE N. Rock Falls, Ill.

Haney's Jacketed Cream Carrier.



A combination of outer wood casing and heavy tin lining, with air chambers between, forming a complete protection from extreme heat or cold, and making the strongest, safe-est and best cream carrier known. Send for circulars to HANEY & CAMPBELL. n carrier known. Send to HANEY & CAMPBELL, Bellevue, Iowa.

JOHN S. CARTER Sole Manufact'r,

NICHOLS' CENTENNIAL WIND MILL

ARM & HAMMER BRAND

TO FARMERS: It is important that the Soda or Saleratus they use should be white and pure, in common with all similar substances used for food.

In making bread with yeast, it is well to use about half a teaspoonful of the Rateratus. "Arm and Hammer" Brand Soda or Saleratus at the same time, and thus make the bread rise better, and pre-

and thus make the bread rise better, and pre vent it becoming sour by correcting the nat ural acidity of the yeast.

DAIRYMEN and FARMERS should use on

by the "Arm and Hammer" brand Soda or Saleratus, buy it in pound or half-pound packages, which bear our name and trade-

mark, as inferior goods are sometimes sub-

stituted for the "Arm and Hammer" brand

ALT ONONDAGA F. F. Table and Dairy Sait.

I'the Purest, Strongest, Best and Cheap!
est Sait made. Warranted as pure as any.
A Triumphant everywhere. At Buffalo in
the State test of 'G'; at the New York Butter and Cheese Exchange test, 'B; at the Milwarkee Grand Union Dairy Exchange Fair
'S3, taking all the leading premiums and
sweepstakes but one, tying its rival on
that, over four foreign competitors. Sole
manufacturers, the American Dairy Salt Co.,
L. Add'ss J.W.BARKER, Sec'y, Syracuse, N. Y.

WANTED. A SITUATION in a creamery had some experience in working store butter; have dress, F. S. G., Clay Center, Kan., care Clay(Center Creamery.

ESTABLISHED 1858. WM. N. TIVY, Butter, Cheese, Eggs, Honey, Wool and Gen-eral Commission Merchant, 424 NORTH SECOND STREET, St. Louis, Mo.

hen bought in bulk.

K CREAMERY

GIVES THE

Contains all the valuable features of his old Nichols' Mills, with none of their defects. This is the only balanced mill without a vane. It is the only mill balanced on its center. It is the only mill balanced on correct scientific principles so as to govern perfectly.

ALL VANES

ALL VANES

Are mecnanical devices used to overcome the mechanical defect of forcing the wheel to run out of its natural position.

A wind wheel becomes its own vane if no vane is used, hence vanes, save only to balure useless for good, and are useless for good are useless for good and are useless for good are useless for good and are useless for good are useless for good and are useless for good and are useless for good are useless for good and are useless for good and are useless for good are useless for good and are useless for good and are useless for good and are useless for good are use

BEST RESULTS

W. S. ROBERT & CO. St. Louis, Mo. OUR NEW NO. 7 FEED MILL. The 8th Wonder of the World. Don't fail to get description before buying. Waranted to grind faster and
better than any mill of
same price. The lightest
draft mill. Has double
force feed and cast steel
GKINDERS. We also make
Big. Little, and New Gil
ants. The only mill that
will grind with Husk on.
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MILLS REPLACED IF BLOWN DOWN. FEED GRINDERS AND GEARED MILLS A SPECIALTY Agents Wanted. Circulars free. Address, KEOKUK WIND ENGINE CO., Keokuk, Jowa

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No. i Plantation Saw Mill, \$200

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C. H. DANA, West Lebanon, N. H. \$65 AMonth & board for 4 live young men or ladies in each county. Address P. W. Ziegler & Co., Chicago, Ill.

SAWENGINES THRESHERS, MILLS, ENGINES HORSE POWERS, CFOR All sections and purposes. Write for Free Pamphles and Prices to The Autumn & Taylor Co., Namelle, Ohio.

360 ACRE FARM FOR SALE!

All in cultivation and grass except thirty acres of timber. Good house and barn and other buildings; abundance of water, helinfences, orchard and five pastures, situate intermited west of Sedalla. It is one-all the particulars aderess M. M. Pemberion, Lamonte, Pettis county, Mo.

SOMETHING ENTIRELY NEW
Buy the Porter Hay Carrier, the only carrier that
uses the new improvement. Ask your dealers or send to J. E. POETER, OTTAWA, ILLS-,
for circular showing this new invention. Pat
April 17, 1889.

Che Stock Pards.

Che &	toc	k P	ards	š.	thin sheep, \$400 for fair to good, and \$4.05 75 for choice to extra. Strong with sales of really prime at \$6.00 and indications that \$6.50 could be obtained for strictly fancy.
halan a some	3 8.4	-			GENERAL MARKET.
Weekly Review	of the	Live S	lock Ma	rket.	THE OTTE Who trade this most was enjoyed
					There was no actual or quotable change to note in values, but the stiffness that has characterized them during the previous week, was not so marked, nor was the feeling
The receipts an	d snip	ments	ior the	MOOR	cherecterized them during the previous
nding at 11 a. m.	to-da	y were	as rollo	WB:	week, was not so marked, nor was the feeling
	RECEI	IPTS.		Horses	so buoyant. A moderate demand was had for leading grades on Southern account which generally brought the same prices as
				and	for leading grades on Southern account
	Cattle	. Hogs.	Sheep. 1300	mules.	were current last week. The local demand
			1300	442 213	were current last week. The local demand was also quiet. We quote fance \$2.5520.55 choice \$4.6564.75; family \$4.1545.450; XXX \$3.0663.25; X \$7.562.00 cuperfine; \$2.562.05.5; fine \$8.3062.40; patent
Thursday	1290 1995	4180 5878	1324 3292	190	choice H 65@4 75; family \$4 15@4 30; XX
riday	352	1714	3	228	\$3 60@3 75; XX \$3 00@3 25; X \$2 75@2 90
fonday	1473	7045	1781	134	\$5 70@6 50.
Tuesday	884	4826	464	155	
STATE OF THE PARTY	0.004	01 407	0 104	1 240	381,770 bushels. Withdrawn 387,713 bushels
Total	6 139	31,487 27,533	8,164 10,981	1,362	tained at times by provisions and the ligh
ast week	SHIPM		Tolong	-,	receipts. Trading was light in a speculative
	OHILM	ALCO LO.		Horses	way, but the inquiry for cash grades wa
	-	-		and	CORN—Received into elevators during weel sal, 770 bushels. Withdrawn 387,713 bushels Corn followed wheat closely, but was sus tained at times by provisions and the ligh receipts. Trading was light in a speculative way, but the inquiry for cash grades wa quite steady throughout the week. At the close bushess was unimproved, there we
and the later of	Cattle	e. Hogs.	Sheep.	mules.	close business was unimproved, there were few orders, and the course to values was really dictated by wheat. May opened at 53% old up to 53%, tell off largely with sales o 250,000 bu. at 5363% at the close. February soid at 50%. March at 50%. April at 52652% and June at 54%. Cash No. 2 mixed sold % off at 50% regular, to 50% East side, but was a binuing and accumulative demand. No.
Wednesday	175 432	720 1459	552	173	really dictated by wheat. May opened at 53%
Thursday Friday		2271	192	240	old up to 53%, fell off largely with sales o
Saturday	1127	1798	1345	246	aold at 50%. March at 50%. April at 50%52
Monday	1948	2448	2686 853	160 95	and June at 54%. Cash No. 2 mixed sold %
Tuesday	186	1411	003	20	off at 50% regular, to 50% East side, but was in
Total	4,964	10,107	5,628	1,012	shipping and accumulative demand. No. white mixed was better at 54@54%, and othe grades steady at 52% bid for rejected white
Total Last week	4,617	3,189	9,410	1,167	grades steady at 52 4 hid for released whit
		_			mixed. New do 51@52½ bid, rejected 42½@4 this, and 44 E. side. New mixed 47@47½. N grade 38@39 E. side.
The shipment	s of c	attle fr	om Can	ada to	this, and 44 E. side. New mixed 1/41/2. A
Great Britain, di	aring t	the last	tour mo	mens, it	WHEAT-Received into elevators during
is said, have bee	n equa	al to the	entire	exports	week 52,994 bushels; withdrawn 23,228 bushels
of the twelve pro	ecedin	g mont	hs.	horrison	Up to Friday the general market for both cash and futures was weak and irregula
A pair of rema	TKADI	b Steers	were r	av last	cash and futures was weak and irregula
week. They we	re two	enty ha	nds hig	h, well	with a bearish tendency to prices. But of
of the twelve pro A pair of rems at the Nationa week. They we fattened, and w	eighed	in the	neighb	orhood	vanced largely. May going to \$1 12. A re
Or olong mn selvens.	8. A C	nty but	cher pur	chased	cash and rutures was weak and irregula with a bearish tendency to prices. But o this day and up to the close prices have advanced largely, May going to \$112. A relapse followed on unfavorable advices fron ther markets and prices gradually fell bac to \$1114. Large sales of cash No. 3 red were made to millers during the week but prices
them.					other markets and prices gradually fell bac
nest two or thr	SHE WE	eks. is.	without	doubt.	to \$1 11%. Large sales of cash No. 3 red wer
The quality of past two or thr meaner than eve	er befo	re, and	is stead	lily de-	made to miliers during the week, but price were not made public. One transfer amounte to 213,000 bushels and another of 35,000 wa made shortly after. This sent prices u rapidly, but the close was weaker and lik
teriorating. The will hardly exce	avera	ge weigi	at, it is c	laimed,	to 213,000 bushels and another of 65,000 wa
will hardly exce	ed 225	ms.	alon Inc	montor	made shortly after. This sent prices u rapidly, but the close was weaker and lik futures the market closed at a decline. Feb
Henry Amelus says he has reje	cted r	more m	eat this	season	rapidly, but the close was weaker and like futures the market closed at a decline. Feb.
THER SVET DEIDLE	. RUE	on acce	DUILL OF	any wo-	rugery closed at \$1.08 bid March sold at \$1.08
ficiency in the sy	weetne	ess of th	e meats,	Dut for	@1 08%, April had \$109% bid. May brough
					\$1 10%@1 12, closing \$1 10%@1 11, June ha
the shrinkage in ors feeding their of sending it to a white and ni- lost greatly in w Mast fed hogs, it yellow, were als	narke	t. This	soft cor	n made	futures the market closed at a decline. February closed at \$108 bid, March sold at \$108 at \$10
a white and nie	e lool	king fat	, but th	e hogs	with \$1.08 bid for regular No. 3 do El 2021 00
lost greatly in w	reight	when n	nade inte	meat.	bid. No. 4 861-2 bid, rejected 70 bid. No.
Mast fed hogs, h	e stat	ed, the	rat of w	mich is	Mediterranean \$1 00 bid.
George & Tor	lor of	Hunte	r. Evene	& Co	OATS-Received into elevators durin
who made a tri	p of	several	hundre	d miles	bushele Oats were dull and week through
most on the Con	tral Ry	anch of	the Un	ion Pa-	out the week and received little attention
cific railroad, sa young hogs and prospects are e	ys he	found a	n abund	ance of	
young nogs and	Topodi	ngly or	additor	a large	the closing day there was hardly any de
apring cron.	_000U		- AUI		mand, may selling at %c decline at 36
apring crop. In October las \$4.04.50, and it	t, whe	n hogs	were se	lling at	only an occasional order was hardly any demand, May selling at 1/2 decline at 36 but later was bid only 364. February an March was held at 35% with no bids. Applead 35 bid coach wear the manual of the selling at 1/2 bid coach wear the search with a small of the selling at 1/2 bid coach wear the search of the search was a small of the search wear the search of the search was a small of the search wear the search of the search was a small of the search was a
\$4@4.50, and it	was t	he gene	eral imp	ression	had 35 bd; cash was quiet with a small demand, but offerings were light, and stead rates prevailed. No. 2 at 35% 2635 in E. 35% in C. Rejected 34 1-2 in U, 34% bi
					mand, but offerings were light, and stead
average price fo	or pac	king gr	ades wo	ould be	St T 252 in C Poinced 341-9 in IT 245
over \$5.00. It is	needle	ess to sa	y he wo	n.	
best, Mr. Lum I average price fo over \$5.00. It is The National	Stock	Yards	Compa	ny, and	HAY-Sales: on E. trk-4 cars prime t
gentleman doin \$427.00 to the re	g bus	the fo	od suffe	rers in	HAY-Sales: on E. trk-4 cars prime thoice mixed at \$9@9 50, 2 prime timothy
Ohio.	TIOT OI	. was sau	ou suite	-010 111	\$7, 1 do at \$10 50, 3 strictly prime at \$11,
The co-partne	rship l	heretofo	re exist	ing un-	choice western prairie at \$10.50, 6 cars mive
der the name of	Cash,	Stewar	t & Co.,	expires	timothy at \$9@9 50. 2 prime timothy at \$10
on the first of Madate business w	will be	aandn	otod na	ter that	10 50, I strictly prime at \$11. 4 choice at \$12
firm name of Co	ah. Ste	wart &	Overstr	eet. Mr.	12 50. 1 strictly do at \$13.
E. B. Overstreet	succe	eding M	r. Lum I	Brown.	choice mixed at \$929.50, 2 prime timothy \$\frac{4}{7}\$, 1 do at \$10.50, 3 strictly prime at \$11, choice at \$12. 1 fancy at \$13; this side—2 can choice western prairie at \$10.50, 6 cars mixe timothy at \$929.50. 2 prime timothy at \$10.10, 50, 1 strictly prime at \$11.4 choice at \$12.12.50. 1 strictly do at \$13. EGGS—Lower, but in large movements a 10c. Late, offers freely at 18c, only 17 1-2c bid.
firm name of Ca E. B. Overstreet CATTLE.—The	cattle	e trade	of this c	ity dur-	noc. Date, oners meety at 100, only 17 1-20 bit
prosperous, and	nag y	in it.	The co	napicu	A Revolution in Plowing.
prosperous, and sults to those en ous features of exhibited by va part of the week	the t	rade wa	s the s	trength	From the MoLINE PLOW Co., Moline, Illinoi
exhibited by va	lues t	hrough	out the	greater	we have received a handsome colored lithe
	town of 4	the will	Inoness	OF DIEV.	10-01 -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1

The National Stock Yards Company, and gentleman doing business there, subscribed \$427.00 to the relief of the flood sufferers in Ohio.

The co-partnership heretofore existing under the name of Cash, Stewart & Co., expires on the first of March by limitation. After that date business will be conducted under the firm name of Cash, Stewart & Overstreet, Mr. E. B. Overstreet succeeding Mr. Lum Brewing the past weeks to conducted under the firm name of Cash, Stewart & Overstreet, Mr. E. B. Overstreet succeeding Mr. Lum Brewing the past weeks the trade of comparatively process to heave engaged in it. The conspicuous features of the trade was the strength exhibited by values throughout the greater part of the week, and the willingness of buyers to pay figures asked without much urging. Quotations here have been higher for some time than elsewhere, and it is apparently the intention of salesmen to maintain that reputation, as every oppertunity is taken to put values up whenever offered. This paying of high prices was not confined to one class of buyers, but all are compelled to meet salesmen's views. There ceipts during the early days of the week, wet and the salesmen to maintain that reputation, as every oppertunity is taken to put values up whenever offered. This paying of high prices was not confined to one class of buyers, but all are compelled to meet salesmen's views. There ceipts during the early days of the week, wet and the graph in the salesmen of the week, wet and the graph in the salesmen of the proceeding week, steadily developed strength, had undergone no quotable change. But on Friday when Eastern advices proved unfavorable and the run of cattle unusually large, they weakened, and buyers taking a firm sland for lower rates, succeeded in obtaining concessions of 10 to 15c, which more particularly affected fair and medium shipping, and all descriptions of butchers' cattle. The most notable transaetion of the week was the changing hands of a load of corn feed Texable you have a steady for the former, and \$3

Exporters\$6	25	6	6	60
Good to heavy steers 6	70	@	6	20
Light to fair steers (grasses) 5				
Common to medium nat. steers.	50	@	5	00
Fair to good Colorado steers 4	50	0	5	75
Southwest steers 4	00	0	5	00
Light to good stockers 8	50	0	4	00
Fair to good feeders 3	75	@	4	50
Native cows and heifers 3	50	@	4	40
Scalawags of any kind 2				
Milch cows with calves 25	00	0	50	00
Veal calves 6				
Representative sales:				
51 native steers 196	7			200

51 native steers.... 20 native steers.... 67 native steers.... 21 native butchers. 23 native heifers... 10 native cows..... 18 native springers 23 native butchers

torkers, and \$1	DO TO IC	or outcher	s to extr	8
Representativ		4	U d'ou	
29132	\$6 15	3925	26 \$7	01
10 108		602	17 7	10
50230	7 00.	532	84 7	8
38240	6 90		69 6	
51178		861	70 6	71
56 205	7 10	402	10 7	0
75200	7.00 .	622	19 7	51
SHEEP-This	market	has not	been in	a

Satisfactory a condition as usual, and values have undergone quite a reduction raused by the declining market East. The demand has not exhibited the same amount of life, and as compared with the previous week, the movement was small. It was not until the near close that any improvement was recorded, the feeling becoming stronger and values pickling up somewhat. The ruling prices during the week were \$2,5000,75 for common,

thin sheep, \$4.64 60 for fair to good, and \$4.75 65 75 for choice to extra. Strong with sales of really prime at \$6.00, and indications that \$6.50 could be obtained for strictly fancy.

BENERAL MARKET.

A Revolution in Plowing

A Revolution in A. Moline, Illinois From the Moline Plow Co., Moline, Illinois have received a handsome colored litho-From the Moline Plow Co., Moline, Illinois, we have received a handsome colored lithograph, 1932, shwing in the foreground their graph, 1932, shwing in the foreground their new hread property of the property and a gauge.

in furrow, acting both as a support and a gauge.

This swivel-plate pole prevents all sided att and weight on horses necks. The driver's weight is mainly over the furrow-wheel which adds no perceptible amount to the draft, and is an advantage in keeping of the property of the property

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A Thorough Purgative

medicine is the first necessity for cure. Then the cathartic effect must be maintained, in a mild degree, just sufficient to prevent a recurrence of costiveness, and at the same time the liver, kidneys and stomach must be stimulated and strengthened.

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Accomplish this restorative work better than any other medicine. They are searching and thorough, yet mild, in their purgative action. They do not gripe the patient, and do not induce a costive reaction, as is the effect of other cathartics. Withal, they possess special properties, diuretic, hepatic and tonic, of the highest medicinal value and

Absolutely Cure

All diseases proceeding from disorder of the digestive and assimilatory organs. The prompt use of AYER'S PILLS to correct the first indications of costiveness, averts the serious illnesses which neglect of that condition would inevitably induce. All irregularities in the action of the bowels—looseness as well as constipation—are beneficially controlled by AYER'S PILLS, and for the stimulation of digestive organs weakened by long-continued dyspepsia, one or two of AYER'S PILLS daily, after dinner, will do more good than anything else.

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'Bitters will surely cure you."

'man of business or laborer weakened by the 'strain of your everyday duties, or a man of 'letters, tolling over your midnight work, 'Hop Bitters will surely strengthen you."

'from over eating or 'drinking, any indescre-'tion or dissipation, or 'are young and growing 'too fast, as is often the 'case."

ing, or stimulating, without intoxicating, if you are old, blood thin and im-pure, pulse feeble, nerves unsteady, faculties waning, Hop Bitters is what 'you need to give you new life, health, 'and vigor."

If you are costive or dyspeptic, or suffering from any other of the numerous diseases of the stomach or bowels, it is your own fault if you remain ill. If you are wasting away with any form of Kidney disease, stop tempting death this moment, and turn for a cure to Hop Bitters.

If you are sick with that terrible sickness Nervousness, you will find a "Balm in Gilead" in Hop Bitters.

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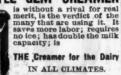
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